BLIOGRAPHY OF REPORTS CONTAINING ANALYSES OF CRUDE OILS BY THE BUREAU OF MINES ROUTINE METHOD

By O. C. Blade

Information Circular 7921

The work upon which this report is based was done under a cooperative agreement between the Bureau of Mines, United States Department of the Interior, and the State of Oklahoma.

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BIBLIOGRAPHY OF REPORTS CONTAINING ANALYSES OF CRUDE OILS BY THE BUREAU OF MINES ROUTINE METHOD[1]

By

O. C. Blade[2]

Introduction and Summary

Studies on more efficient utilization of petroleum have been made for 50 years by the Bureau of Mines. As part of this work, the Bureau has analyzed thousands of samples of crude oil by its standardized routine method, and many of these analyses have been published, sometimes in special compilations, other times in connection with reports of research on petroleum. This report is a finding index for all analyses published from 1921 to 1959, and brings up to date the information in Information Circular 7470 [3] and in the appendix of Bulletin 490.[4]

The routine method of analysis and the equipment originally were described in a report by Dean and associates. [5] This report has long been out of print, but Bulletin 490, bringing the procedure and its modifications to date, was published in 1951.[6] Briefly, the procedure consists of testing, by standard methods, small samples of a crude oil for gravity, sulfur, color, viscosity, pour point, and (more recently) nitrogen; and, by a standardized procedure, distilling a portion of the crude oil and determining certain properties on the separated fractions and residuum. Careful records are made during the procedure, and the distillation data obtained are used to compute the approximate amounts of products present in the sample—such as percentages of gasoline, kerosine, gas oil, and lubricants. The principal data and results are recorded on a standard analytical report form. An analysis of a sample of crude oil from a recently developed field is shown in table 1. Compilations of these analyses, sometimes in tabular form and usually for specific geographic areas, are published from time to time. Analyses often are included in connection with other studies, such as engineering field reports.

[1] Work on manuscript completed February 1959.

[2] Petroleum chemist, Bureau of Mines, Bartlesville, Okla.

[3] Hughes, Elizabeth, and Blade, O. C., Bibliography of Reports Containing Analyses of Crude Oils by the Bureau of Mines Routine Method: Bureau of Mines Inf. Circ. 7470, 1948, 68 pp.

[4] Smith, N. A. C., Smith, H. M., Blade, O. C., and Garton, E. L., The Bureau of Mines Routine Method for the Analysis of Crude Petroleum. I. The Analytical Method: Bureau of Mines Bull. 490, 1951, 82 pp.

[5] Dean, E. W., Hill, H. H., Smith, N. A. C., and Jacobs, W. A., The Analytical Distillation of Petroleum and Its Products: Bureau of Mines Bull. 207, 1922, 82 pp.

[6] Work cited in footnote 4.

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TABLE 1.—*Crude-petroleum analysis*

Bureau of Mines Laramie Laboratory
Sample PC–57–140

IDENTIFICATION

Aneth field — Utah
Aneth limestone (Hermosa) — San Juan County
5,586–5,715 feet — 40S–24E–Salt Lake Md.

General Characteristics

Gravity, specific, 0.818 — Gravity, ° API, 41.5 — Pour point, ° F., 10
Sulfur, percent, 0.13 — Color, green
Viscosity, Saybolt Universal at 100° F., 35 sec. — Nitrogen, percent, 0.040

Distillation, Bureau of Mines Routine Method

STAGE 1—Distillation at atomspheric pressure, 760 mm. Hg.
First drop, 73° F.

Fraction No.	Cut temp., ° F.	Percent	Sum, percent	Sp. gr., 60/60° F.	° API, 60° F.	C. I.	Refractive index, n_D at 20° C.	Specific dispersion	S. U. visc., 100° F.	Cloud test, ° F.
1	122	2. 9	2. 9	0. 665	81. 3					
2	167	3. 4	6. 3	. 684	75. 4	14	1. 38331	130. 9		
3	212	6. 7	13. 0	. 726	63. 4	24	1. 40385	135. 0		
4	257	5. 4	18. 4	. 747	57. 9	25	1. 41571	139. 4		
5	302	5. 3	23. 7	. 764	53. 7	26	1. 42521	143. 8		
6	347	5. 5	29. 2	. 779	50. 1	26	1. 43421	145. 5		
7	392	5. 0	34. 2	. 793	46. 9	26	1. 44164	143. 9		
8	437	5. 1	39. 3	. 806	44. 1	27	1. 44861	146. 6		
9	482	6. 6	45. 9	. 820	41. 1	28	1. 45652	151. 6		
10	527	6. 7	52. 6	. 831	38. 8	29	1. 46360	156. 7		
STAGE 2—Distillation continued at 40 mm. Hg.										
11	392	1. 2	53. 8	0. 845	36. 0	31			39	15
12	437	5. 1	58. 9	. 845	36. 0	28			42	25
13	482	6. 4	65. 3	. 852	34. 6	28			50	50
14	527	5. 4	70. 7	. 872	30. 8	34			67	65
15	572	4. 7	75. 4	. 876	30. 0	33			99	80
Residuum		22. 5	97. 9	. 914	23. 3					

Carbon residue, Conradson: Residuum, 2.5 percent; crude 0.5 percent.

Approximate Summary

	Percent	Sp. gr.	° API	Viscosity
Light gasoline	13. 0	0. 701	70. 4	
Total gasoline and naphtha	34. 2	0. 744	58. 7	
Kerosine distillate	11. 7	. 814	42. 3	
Gas oil	16. 2	. 841	36. 8	
Nonviscous lubricating distillate	11. 1	. 852–. 876	34. 6–30. 0	50–100
Medium lubricating distillate	2. 2	. 876–. 878	30. 0–29. 7	100–200
Viscous lubricating distillate				Above 200
Residuum	22. 5	. 914	23. 3	
Distillation loss	2. 1			

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This bibliography is a compilation of over 150 publications that contain complete analyses of samples of crude petroleum by the Bureau of Mines. References may be found to analyses of crude oils from the United States, Canada, Mexico, and other countries in both hemispheres. A short abstract is given for each publication, with special reference to the analyses.

Reports that contain only incomplete data from routine analyses generally are omitted from this bibliography. Exceptions to this general rule are made in two instances: One report listed in section C, Report of Investigations 2290, contains only data on pour points and viscosities of 50 crude-oil samples to supplement data in Reports of Investigations 2202 and 2235 and should be used in conjunction with them. Another publication, listed as G9, shows in tabular form summarized data from analyses, but the detailed figures for distillation are omitted.

Bureau of Mines numbered publications[7] are listed in sections A, B, C, and E, unnumbered engineering field reports in section D,[8] press releases in section F, and other publications in section G. Table 2 is a list of depository libraries where most of the reports are available for reference.

Table 3 is a finding list for the analyses of over 3,000 crude-oil samples that have been published in the reports listed in the bibliography. The first column lists the samples alphabetically by oilfield names in groups according to continents, countries, and (for this country) States; the second column the published name of a field if different from the known current name; the third column the laboratory sample number; the fourth column a reference to the report in which the analysis is published (by Bureau report number or by section in the bibliography); and the last column the item or sample numbers or other designations that identify the analyses in their respective publications. Other names of fields that are synonymous with the names listed appear in parenthesis with no explanation. The word "*See*", plus the name of the field in current use, has been placed after the name that is not accepted. Some oilfield names represent areas no longer producing and may in that region or State officially be listed as "abandoned," but no attempt has been made in this report so to designate a field. Footnotes give other detailed information.

ACKNOWLEDGMENTS

Acknowledgment is made to William S. Lytle, assistant geologist, Oil and Gas Studies, Pennsylvania Geological Survey, who reviewed descriptions of well locations in Pennsylvania from which samples of crude oil in past years had been obtained and who also reviewed and corrected field names. Acknowledgment also is made to the authors of papers in preparation in the Bureau of Mines who furnish information on analyses of crude oils included in their latest report.

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[7] Stratton, Hazel J., and Winslow, Mabel E., List of Publications of the Bureau of Mines, July 1, 1910-January 1, 1949, With Subject and Author Index: 1950, 460 pp. $2.00.
Stratton, Hazel J., List of Publications of the Bureau of Mines, January 1, 1949-January 1, 1954, With Subject and Author Index: 1955. 187 pp. $1.00.

[8] Works cited in footnote 7.

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BIBLIOGRAPHY

Publications preceded by (*) are obtainable only through the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C. Orders for these publications should not be sent to the Bureau of Mines. Remittances should be included with the order in cash, postal money order, or coupons sold by the Superintendent of Documents in sheets of 20 for $1.00. Postage stamps are not accepted.

Reports of investigations and information circulars are available for free distribution. Applications should be made to Publications Distribution Section, Bureau of Mines, 4800 Forbes Avenue, Pittsburgh 13, Pa. Recently a few reports in these series have been issued as sales publications. When this occurs, the (*) asterisk sign will be shown as described in the above paragraph.

Many publications indicated as out of print (**) may be consulted at depository libraries that receive Bureau of Mines publications on petroleum. These libraries are listed in table 2.

In addition to the publications of the Bureau of Mines, references are included to articles written by members of the Bureau staff for the technical press and to cooperative reports of work done jointly with States, colleges, and industries in which analyses of crude oils by the Bureau of Mines are included. References are given in each section in chronological order.

TABLE 2.—*List of libraries now receiving all publications of the Bureau of Mines concerned with the production and refining of petroleum and its products*

State or Territory and city	*Library*
Alabama:	
Auburn	Alabama Polytechnic Institute.
Birmingham	Public.
Mobile	Public.
University	University of Alabama (Ref. Dept.).
Alaska: College	University of Alaska.
Arizona:	
Phoenix	Department of Library and Archives.
	Public.
Tucson	University of Arizona.
Arkansas:	
Fayetteville	University of Arkansas.
Jonesboro	Arkansas State College.
California:	
Bakersfield	Kern County Free Library.
Berkeley	University of California.
Long Beach	Public.
Los Angeles	Public.
	University of California at Los Angeles.
	University of Southern California.
	Western Oil & Gas Association.
Oakland	Public.
Pasadena	California Institute of Technology.
Richmond	California Research Corporation.
Sacramento	California State.
	City Free.
San Diego	Public.
San Francisco	California State Division of Mines, Geologic Branch.
	Public.
Stanford University	Stanford University.
Stockton	Free Public.
Colorado:	
Boulder	University of Colorado.
Colorado Springs	Colorado College, Coburn Library.
Denver	Colorado State.
	Public.
	Federal Geological Survey.
Colorado—Con.	
Durango	Public.
Golden	Colorado School of Mines.
Idaho Springs	Western College of Mining.
Connecticut:	
Bridgeport	Public.
Hartford	Connecticut State.
Middleton	Wesleyan University.
New Haven	Yale University.
Storrs	University of Connecticut.
Delaware:	
Newark	University of Delaware.
Wilmington	Wilmington Institute Free.
Florida:	
Coral Gables (Univ. Br.)	University of Miami.
Gainesville	University of Florida.
Georgia:	
Atlanta	Public.
	Georgia Institute of Technology.
Emory University	Emory University, Asa Griggs Candler Library.
Hawaii: Honolulu	University of Hawaii.
Idaho:	
Boise	Public.
Moscow	University of Idaho.
Pocatello	Idaho State College.
Illinois:	
Chicago	Public.
	Illinois Institute of Technology.
	Institute of Gas Technology Library.
	John Crerar.
	Museum of Science and Industry.
	University of Chicago.
Evanston	Northwestern University.
Normal	Illinois State Normal University.
Peoria	Public.
Springfield	Illinois State Library.
Urbana	Illinois State Geological Survey.
	University of Illinois.

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TABLE 2.—*List of libraries now receiving all publications of the Bureau of Mines concerned with the production and refining of petroleum and its products*—Continued

State or Territory and city	Library
Indiana:	
Bloomington	Indiana University.
Evansville	Public.
Fort Wayne	Public.
Indianapolis	Indiana State.
	Public.
La Fayette	Purdue University.
Notre Dame	University of Notre Dame.
Iowa:	
Ames	Iowa State College.
Des Moines	Public.
Iowa City	State University of Iowa.
Kansas:	
Lawrence	University of Kansas.
Manhattan	Kansas State College of Agriculture and Applied Sciences.
Pittsburg	Public.
Topeka	Kansas State Library.
Kentucky:	
Lexington	University of Kentucky.
Louisville	Free Public.
Louisiana:	
Baton Rouge	Louisiana State University.
New Orleans	Public.
	Tulane University, Howard-Tilton Memorial Library.
Maine: Orono	University of Maine.
Maryland:	
Baltimore	Enoch Pratt Free.
	John Hopkins University.
Massachusetts:	
Boston	Public.
Cambridge	Harvard University.
	Massachusetts Institute of Technology.
Michigan:	
Ann Arbor	University of Michigan, General.
Detroit	Public.
	Wayne University.
East Lansing	Michigan State College of Agriculture and Applied Science.
Houghton	Michigan College of Mines and Technology.
Lansing	Michigan State.
Saginaw	Hoyt Public.
Warren	General Motors Corp.
Minnesota:	
Duluth	Public.
Minneapolis	Public.
	University of Minnesota.
Northfield	St. Olaf College.
St. Paul	James Jerome Hill Reference.
	Minnesota State.
	Public.
Mississippi:	
State College	Mississippi State College.
Missouri:	
Columbia	University of Missouri.
Kansas City	Public.
	University of Kansas City.
Rolla	School of Mines and Metallurgy.
St. Louis	Public.
	Washington University, Geology Library.
Montana:	
Bozeman	Montana State College.
Butte	Montana School of Mines.
Missoula	State University of Montana.
Nebraska:	
Blair	Dana College.
Fremont	Milland College Library.
Lincoln	University of Nebraska.
Nevada: Reno	University of Nevada.
New Hampshire:	
Durham	University of New Hampshire, Hamilton Smith Library.
Hanover	Dartmouth College.
New Jersey:	
Elizabeth	Public.
Hoboken	Stevens Institute of Techonlogy.
Newark	Public.
New Brunswick	Rutgers University.
Princeton	Princeton University.
New Mexico:	
Albuquerque	University of New Mexico.
Santa Fe	New Mexico State Law.
Socorro	New Mexico School of Mines.
New York:	
Albany	New York State.
Brooklyn	Public.
Brooklyn	Pratt Institute.
Buffalo	Public.
	Grosvenor..
Ithaca	Cornell University.
Jamaica	Queens Borough Public.
New York	College of the City of New York.
	Columbia University.
	Cooper Union.
	Engineering Societies Library.
	New York University General.
Rochester	University of Rochester.
Schenectady	Union College.
Syracuse	Public.
Tray	Rensselaer Polytechnic Institute.
North Carolina:	
Chapel Hill	University of North Carolina.
Durham	Duke University.
Raleigh	North Carolina State College, D. H. Hill Library.
Salisbury	Catawba College.
North Dakota:	
Fargo	North Dakota Agriculture College, Dept. of Geology.
Grand Forks	University of North Dakota.
Ohio:	
Cincinnati	Public.
Cleveland	Case Institute of Technology.
	Public.
	Western Reserve University.
Columbus	Battelle Memorial Institute.
	Ohio State University.
Dayton	Public.
Marietta	Marietta College.
Toledo	Public.
Youngstown	Public.
Oklahoma:	
Alva	Northwestern State Teachers College.
Durant	Southeastern Teachers College.
Norman	Oklahoma Geological Survey.
	University of Oklahoma.
Oklahoma City	Oklahoma City Libraries, Business-Technical Section.
	Oklahoma State Library.
Stillwater	Oklahoma State University.
Tulsa	Tulsa Public Library, Technical Dept.
	University of Tulsa.

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TABLE 2.—*List of libraries now receiving all publications of the Bureau of Mines concerned with the production and refining of petroleum and its products*—Continued

State or Territory and city	*Library*
Oregon:	
Eugene	University of Oregon.
Portland	Library Association of Portland.
Salem	Oregon State.
Pennsylvania:	
Bethlehem	Lehigh University.
Easton	Lafayette College Library, Dept. of Mining and Metallurgical Engineering.
Harrisburg	Pennsylvania State.
Philadelphia	Franklin Institute.
	University of Pennsylvania.
Pittsburgh	Carnegie.
	University of Pittsburgh.
Reading	Public.
Scranton	Public.
State College	Pennsylvania State College.
Rhode Island:	
Kingston	Rhode Island State College.
Providence	Brown University.
South Carolina:	
Columbia	University of South Carolina, McKissick Memorial Library.
South Dakota:	
Brookings	South Dakota State, Lincoln Memorial Library.
Mitchell	Dakota Wesleyan University, Chem. Dept. Library.
Rapid City	South Dakota State School of Mines and Technology.
Vermillion	University of South Dakota.
Tennessee:	
Chattanooga	Public.
Knoxville	University of Tennessee.
Memphis	Cossitt.
Texas:	
Austin	Texas State.
	University of Texas.
Canyon	The West Texas State Teachers College.
College Station	Agricultural and Mechanical College of Texas.
Dallas	Public.
	Southern Methodist University.
Texas—Continued	
El Paso	Public.
	Texas State College of Mines and Metallurgy.
Fort Worth	Public.
Galveston	Rosenberg.
Houston	Public.
	Rice Institute, The Fondren Library.
	University of Houston Libraries.
Lubbock	Texas Technical College.
San Antonio	Public Library.
Waco	Baylor University Library.
Utah:	
Provo	Brigham Young University.
Salt Lake City	University of Utah.
Vermont:	
Middlebury	Middlebury College.
Virginia:	
Blacksburg	Virginia Polytechnic Institute.
Charlottesville	University of Virginia, Alderman Library.
Emory	Emory and Henry College.
Richmond	Virginia State.
University	University of Virginia.
Washington:	
Olympia	Washington State.
Seattle	Public.
	University of Washington.
Spokane	Public.
Tacoma	Public.
West Virginia:	
Huntington	Marshall College, James E. Morrow Library.
Morgantown	West Virginia University.
Wisconsin:	
Madison	University of Wisconsin.
Milwaukee	Milwaukee Public Library.
Platteville	Wisconsin State Institute of Technology.
Racine	Public.
Wyoming:	
Casper	Natrona Public.
Cheyenne	Wyoming State.
Laramie	University of Wyoming.

SECTION A. BULLETINS

A1.** B207. The Analytical Distillation of Petroleum, by E. W. Dean, H. H. Hill, N. A. C. Smith, and W. A. Jacobs. 1922. 82 pp., 3 pl., 33 figs.

Describes method of analysis developed by the Bureau of Mines for its studies of crude petroleum. Data for distillation of two crude-oil samples are given (p. 32).

A2.** B231. Investigation of Toxic Gases From Mexican and Other High-Sulphur Petroleums and Products, by R. R. Sayers, N. A. C. Smith, A. C. Fieldner, C. W. Mitchell, G. W. Jones, W.P. Yant, D. D. Stark, S. H. Katz, J. J. Bloomfield, and W. A. Jacobs. 1925. 108 pp., 17 pl., 12 figs. (In cooperation with API.)

Presents results of fieldwork and laboratory investigations on the refining of Mexican crude oils. Seven analyses of crude oils from Mexico and the United States are included in a chapter on the characteristics of some high-sulfur crude oils (pp. 18–24).

A3.** B284. Production and Development Problems in the Powell Oil Field, Navarro County, Tex., by H. B. Hill and Chase E. Sutton. 1928. 123 pp., 35 figs.

Presents results of a detailed study of pay sands. Includes four individual analyses of crude-oil samples from Woodbine, Corsicanna, and Nacatoch sands (pp. 106–110).

A4.** B291. Tabulated Analyses of Representative Crude Petroleums of the United States, by N. A. C. Smith and E. C. Lane. 1928. 69 pp. (In cooperation with the State of Oklahoma.)

Presents a tabulation of analyses of 319 samples of crude oils from Alaska, Arkansas, California, Colorado, Illinois, Indiana, Kansas, Kentucky, Louisiana, Montana, New Mexico, New York, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, and Wyoming.

A5.* B401. Properties of Typical Crude Oils From Fields of the Eastern Hemisphere, by A. J. Kraemer and E. C. Lane. 1937. 169 pp., 8 figs. 20 cents.

Presents comments, tabulated data, and individual analyses of 142 samples of crude petroleum obtained

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from Albania, Czechslovakia, France, Germany, Great Britain, Italy, Poland, Rumania, Yugoslavia, Greece, Russia, Iran, Iraq, Burma, India, Japan, East Indies, New Zealand, Algeria, Egypt, and Angola.

A6.** B418. Petroleum and Natural-Gas Fields in Wyoming, by R. H. Espach and H. D. Nichols. 1941. 185 pp., 72 figs., maps in box. (In cooperation with the Geological Survey, U.S. Department of the Interior, and the University of Wyoming.)

Comprehensive report on Wyoming oil and gas fields; appendix includes 104 analyses of crude oils from 75 fields in Wyoming (pp. 124–175).

A7.* B490. The Bureau of Mines Routine Method for the Analysis of Crude Petroleum. I. The Analytical Method, by N. A. C. Smith, H. M. Smith, O. C. Blade, and E. L. Garton. 1951. 82 pp., 20 figs. 50 cents.

Revision of B207; table 1 contains 2 analyses and table 4 contains 14 analyses of crude-oil samples.

SECTION B. TECHNICAL PAPERS

B1.** TP322. Experiments in the Use of Back Pressure on Oil Wells, by T. E. Swigart and C. R. Bopp. 1924. 66 pp., 5 pl., 4 figs.

Includes analysis of crude oil from Skull Creek (now Hickory Creek) field, Osage County, Okla. (p. 10).

B2.** TP346. Properties of Typical Crude Oils From the Producing Fields of the Western Hemisphere, by A. J. Kraemer and L. P. Calkin. 1925. 43 pp.

Presents comment, tabulated data, and 48 individual analyses of crude oils typical of the producing districts of Canada, Mexico, Trinidad, Venezuela, Argentina, Colombia, and Peru. For comparison, 12 analyses of typical crude oils of the United States are included.

B3.** TP428. A Study of the Less Volatile Oils in Salt Creek (Wyo.) Crude, by H. M. Smith. 1928. 28 pp.

Includes analysis of a typical sample of crude oil from the Salt Creek field (p. 3).

B4.** TP449. A Study of the Crude Oil Produced in the Salt Creek Field, Wyoming, by H. P. Rue and I. N. Beall. 1929. 27 pp., 5 figs.

Includes analyses of 4 samples of crude oil from Salt Creek field, Wyoming (pp. 3–6).

B5.* TP470. Results of Air Repressuring and Engineering Study of Williams Pool, Putnam-Moran District, Callahan County, Tex., by H. B. Hill. 1930. 69 pp., 28 figs. 15 cents.

Includes analyses of two crude-oil samples from Williams pool (pp. 13–14.)

B6.** TP477. A Study of the Lubricant Fractions of Cabin Creek (W. Va.) Petroleum, by H. M. Smith. 1931. 48 pp., 25 figs.

Includes analysis of crude oil from Cabin Creek field (p. 3).

B7.* TP504. Engineering Report of Cotton Valley Field, Webster Parish, La., by J. S. Ross. 1931. 69 pp., 23 figs. 30 cents.

Includes analyses of two samples of crude oil from Cotton Valley field. (pp. 49–50).

B8.** TP505. Influence of Fractionation on Distribution of Sulfur in Gasoline, by R. H. Espach and H. P. Rue. 1931. 24 pp., 11 figs.

Includes analyses of the crude oil, known to be fairly high in sulfur content, from Winkler County, Tex., (Hendrick field) from which the gasoline used in the study was obtained (p. 10).

B9.* TP538. A Survey of the High-Sulfur Crude Oils (Black Oils) Produced in Wyoming, by H. M. Thorne and Walter Murphy. 1932. 56 pp., 3 figs. 10 cents.

Presents analyses of 36 Wyoming "black-oil" samples.

B10* TP554. Solubility and Liberation of Gas From Natural Oil-Gas Solutions, by Ben E. Lindsly. 1933. 65 pp., 16 figs. 10 cents.

Includes three analyses of crude oils from Oklahoma City field (pp. 51–53) and three analyses of crude oils from California (pp. 54–56).

B11.** TP607. Tabulated Analyses of Texas Crude Oils, by A. J. Kraemer and Gustav Wade. 1939. 37 pp., 1 fig.

Presents in tabulated form 480 analyses of crude oil samples. Some of these analyses were previously published in RI3252.

B12.** TP610. Correlation Index to Aid in Interpreting Crude-Oil Analyses, by H. M. Smith. 1940. 34 pp., 4 figs.

Discusses meaning of correlation index and its application to Bureau of Mines analyses of crude oils. Includes analyses of 15 samples of crude petroleum.

B13.* TP722. Composition of Petroleum: Properties of Distillates of 600° F., by W. C. Holliman, H. M. Smith, C. M. McKinney, and C. R. Sponsler. 1950. 55 pp., 16 figs. 20 cents.

Includes, in tabular form, analyses of 10 crude-oil samples from United States fields, from which the distillates were obtained (pp. 10–12).

SECTION C. REPORTS OF INVESTIGATIONS

C1.** RI2202. Properties of Typical Crude Oils From the Eastern Producing Fields of the United States, by E. W. Dean. 1921. 57 pp.

Presents 40 analyses of crude oils from New York, Pennsylvania, West Virginia, Ohio, Kentucky, Indiana, Illinois, Kansas, Oklahoma, Wyoming, and California.

C2.** RI2235. Properties of Typical Crude Oils From the Producing Fields of the Rocky Mountain District, by E. W. Dean, M. B. Cooke, and A. D. Bauer. 1921. 50 pp.

Presents tabulated data and individual analyses of 27 samples of crude petroleum from Wyoming, Montana, and Colorado. For comparison, nine additional analyses of crude oils from Pennsylvania, West Virginia, Ohio, Kentucky, Indiana, Illinois, Kansas, Oklahoma, and California are included.

C3.** RI2290. Viscosities and Pour Tests of Typical Crude Oils From the Eastern and Rocky Mountain Producing Fields, by E. W. Dean, A. D. Bauer, and W. B. Lerch. 1921. 5 pp.

Supplements data in RI2202 and RI2235. Viscosity determinations at two temperatures and pour tests are given for 50 different samples of crude petroleum, whose distillation analyses were given in the two reports of investigations above.

C4.** RI2293. Properties of Typical Crude Oils From the Producing Fields of Northern Texas, Northern Louisiana, and Arkansas, by E. W. Dean, M. B. Cooke, and C. R. Bopp. 1921. 50 pp.

Analyses of 28 samples of crude oils from northern Texas, northern Louisiana, and Arkansas, and, for comparison, analyses of crude oils from fields of Pennsylvania, West Virginia, Ohio, Kentucky, Indiana, Illinois, Kansas, Oklahoma, Wyoming, Texas Gulf coast, and California are presented.

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C5.** RI2322. Properties of Typical Crude Oils From the Producing Fields of Kansas, by E. W. Dean, M. B. Cooke, and A. D. Bauer. 1922. 51 pp.

Analyses of 27 samples of Kansas crude oils and, for comparison, 13 analyses of crude oils from fields of Pennsylvania, West Virginia, Ohio, Kentucky, Indiana, Illinois, Oklahoma, Texas, Louisiana, Arkansas, Wyoming, and California are presented.

C6.** RI2364. Properties of Typical Crude Oils From the Producing Fields of Oklahoma, by E. W. Dean, A. D. Bauer, M. B. Cooke, and C. R. Bopp. 1922. 77 pp.

Analyses of 49 samples of crude oils from fields in Oklahoma and, for comparison, 13 analyses of crude oils from fields in Pennsylvania, West Virginia, Ohio, Kentucky, Indiana, Illinois, Kansas, Texas, Louisiana, Arkansas, Wyoming, and California are included.

C7.** RI2416. Properties of Typical Crude Oils From the Producing Fields of Southern Louisiana and Southern Texas, by N. A. C. Smith, M. B. Cooke, and A. D. Bauer. 1922. 69 pp., 1 fig.

Analyses of 38 samples of crude petroleum from fields in southern Louisiana and southern Texas and, for comparison, 13 analyses of crude oils from fields in Arkansas, California, Illinois, Indiana, Kansas, Kentucky, Louisiana, Ohio, Oklahoma, Pennsylvania, Texas, West Virignia, and Wyoming.

C8.** RI2450. Petroleum Engineering in the Skull Creek Oil Pool, Northeastern Osage County, Okla., by T. E. Swigart. 1923. 9 pp., 1 fig.

Experiments in this field, now known as Hickory Creek, described. One analysis of crude oil included (p. 6).

C9.** RI2582. The Distribution of Sulphur in Crude Petroleum, by N. A. C. Smith and D. D. Stark. 1924. 17 pp., 3 figs.

Includes eight analyses of samples of crude oil from Mexico, Texas, Wyoming, Arkansas, Oklahoma, and Ohio (pp. 10–17).

C10.** RI2595. Properties of Typical Crude Oils From the Producing Fields of California, by A. J. Kraemer and H. M. Smith. 1924. 55 pp.

Presents discussion and tabulated data on 92 samples of crude oil from fields of California, of which 38 individual analyses are shown.

C11.** RI2608. Properties of California Crude Oils. II. Additional Analyses, by A. J. Kraemer and H. M. Smith. 1924. 55 pp.

Presents 54 analyses of crude oils from California. Data from these analyses were included in table in RI2595.

C12.** RI2632. An Experimental Still for the Detailed Study of Crude Petroleum, by M. B. Cooke. 1924. 21 pp., 5 figs.

Includes analysis of a Wyoming crude oil (p. 19).

C13.** RI2806. The Interpretation of Crude-Oil Analyses, by N. A. C. Smith. 1927. 20 pp., 6 figs.

Describes system for interpreting analyses and of classifying crude oils. Includes analyses of four crude oils, each typical of its class (pp. 13–16).

C14.** RI2807. Properties of Typical Crude Oils From the Producing Fields of Venezuela, by A. J. Kraemer. 1927. 22 pp.

Presents discussion, tabulation of data, and analyses of six crude oils from Venezuela. Several analyses of crude oils from United States are included for comparison.

C15.** RI2808. Analyses of Spindletop (Tex.) Crude Oils, by A. J. Kraemer and Peter Grandone. 1927. 19 pp.

Presents discussion, tabulation of data, and analyses of 14 samples of Spindletop crude oil.

C16.** RI2824. Analyses of Crude Oils From the Seminole District, Oklahoma, by A. J. Kraemer. 1927. 18 pp.

Presents discussion, tabulation of data, and analyses of 13 samples of crude oil from fields in Seminole district.

C17.** RI2846. Properties of California Crude Oils. III. Additional Analyses, by A. J. Kraemer 1927. 27 pp.

Tabulation of some data and individual analyses of 22 samples of petroleum from Ventura, Los Angeles, and Orange Counties, Calif.

C18. RI2849. Analyses of Crude Oils From the West Texas District, by A. J. Kraemer, Peter Grandone, and C. S. Luce. 1927. 18 pp.

Discussion, tabulation, and analyses of 12 samples of crude oil.

C19. RI2893. Volumetric and A. P. I. Gravity Changes Due to the Solution of Gas in Crude Oils, by R. van A. Mills and R. E. Heithecker. 1928. 15 pp., 5 figs. (In cooperation with the State of Oklahoma.)

Includes analyses of three crude oils from Oklahoma and California (pp. 4–6).

C20.** RI2035. Recovery of Oil From Sands by the "Gas-Drive," by Joseph Chalmers, L. H. Nelson, and D. B. Taliaferro. 1930. 12 pp., 6 figs. (In cooperation with the State of Oklahoma).

Describes method of stimulating production of oil by injecting gas or air into wells. Includes an analysis of crude oil from the Bartlesville field, Oklahoma, which was used in experiments (p. 4).

C21.** RI3059. Development and Production History on the Salt Flat and Other Fault Fields of East Central Texas, by H. B. Hill, E. V. H. Bauserman, and C. B. Carpenter. 1931. 46 pp., 13 figs.

Includes analysis of crude oil from Salt Flat field. (p. 46).

C22.** RI3066. The Use of Aluminum for Oil Lease Tanks; Part I—Field Tests, by Ludwig Schmidt, John M. Devine, and C. J. Wilhelm. 1931. 17 pp., 3 figs. (In cooperation with the State of Oklahoma, the Aluminum Company of America, the Gulf Oil Corp., and the Parkersburg Rig and Reel Co.)

Includes an analysis of a representative sample of crude oil from Panhandle field, Texas (p. 8).

C23. RI3074. Properties of California Crude Oils. IV. Additional Analyses, by A. J. Kraemer. 1931. 12 pp.

Discusses results and presents tabular data and analyses of eight California crude oils.

C24. RI3130. Properties of Typical Crude Oils From the East Texas Field, by E. L. Garton. 1931. 7 pp.

Presents discussion, tabulation of some data, and five analyses of samples of crude oils from Van and East Texas fields.

C25. RI3174. Properties of Crude Oil From the Greasewood Flat Area in Colorado, by H. P. Rue. 1932. 3 pp.

Presents analyses of two samples of crude oil from Greasewood field.

C26.** RI3180. Analyses of Crude Oils From the Oklahoma City Field, Oklahoma, by E. L. Garton. 1932. 29 pp. (In cooperation with the State of Oklahoma.)

Presents discussion, tabular data, and analyses of 21 samples of crude oil from Oklahoma City field with one analysis of crude oil from Seminole field, Oklahoma, for comparison.

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C27.** RI3251. Engineering Studies and Results of Acid Treatment of Wells, Zwolle Oil Field, Sabine Parish, La., by R. E. Heithecker. 1934. 35 pp., 14 figs.

Includes analysis of crude oil from this field (p. 19).

C28.** RI3252. Tabulated Analyses of Texas Crude Oils, by Gustav Wade. 1934. 40 pp., 1 fig.

Presents, in condensed tabular form, 313 analyses of Texas crude oils. Tabulation arranged in six geographic divisions.

C29.** RI3253. Analyses of Crude Oil From Some Fields of Southern Louisiana, by A. J. Kraemer and E. L. Garton. 1934. 36 pp.

Presents discussion, tabular data, and individual analyses of 26 samples of crude oil.

C30. RI3279. "Base" of a Crude Oil, by E. C. Lane and E. L. Garton. 1935. 12 pp.

Presents seven analyses of crude oils from West Virginia, Oklahoma, Louisiana, Wyoming, and Texas to illustrate characteristics of "base" classification (pp. 3–9).

C31.** RI3297. Preliminary Report on the Disposal of Oil-Field Brines in the Ritz-Canton Oil Field, McPherson County, Kans., by C. J. Wilhelm and Ludwig Schmidt. 1935. 20 pp., 6 figs. (In cooperation with the Kansas State Board of Health.)

Includes two analyses of crude oils from Ritz-Canton field (pp.9–11).

C32.** RI3316. Petroleum Engineering Report, Big Spring Field and Other Fields in West Texas and Southeastern New Mexico, by Charles B. Carpenter and H. B. Hill. 1936. 223 pp., 40 figs. (In cooperation with the Chamber of Commerce, Midland, Tex.)

Includes four analyses of crude oils from Howard-Glasscock (Big Spring) field (pp. 32, 41, 48, and 63) and general characteristics and summaries of distillation tests from three analyses of crude oils from the same field (p. 76); five from Big Lake field (pp. 164 and 176–179); two from Hobbs field (pp. 198–199); and one analysis each of samples from Yates field (p. 110); Hendrick field (p. 132); McElroy field (p. 144); Penn field (p. 208); and Westbrook field (p. 220).

C33.** RI3325. A Study of Oxidation of the Oil in Two Air- and Air-Gas Repressuring Projects, by T. W. Johnson and S. S. Taylor. 1937. 24 pp., 1 fig.

Discusses tests on crude oils from repressuring projects in two fields to determine effects of oxidation. Group analyses of four crude-oil samples from Martha field, Kentucky (pp. 10–13) and of four samples from Delaware-Childers field, Oklahoma (pp.19–22).

C34. RI3346. Analyses of Crude Oils From Some Fields in Michigan, by E. L. Garton. 1937. 28 pp., 1 fig.

Presents discussion of fields sampled, discussion of data, and individual analyses of 15 samples of Michigan crude oils and, for comparison, an analysis of a Pennsylvania petroleum.

C35.** RI3358. Analyses of Crude Oils From Some of the More Recently Discovered Rocky Mountain Fields, by Walter Murphy and H. M. Thorne. 1937. 24 pp. (In cooperation with the University of Wyoming.)

Presents brief histories and production data of 10 fields, discussion of characteristics of crude oils produced, and 12 analyses of samples from these fields.

C36. RI3362. Properties of California Crude Oils. V. Additional Analyses, by E. C. Lane and E. L. Garton. 1937. 21 pp.

Brief discussion of results, tabulation of analytical data, and individual analyses of 16 samples from 10 fields.

C37. RI3385. Analyses of Crude Oils From Some Fields of Pennsylvania and New York, by E. C. Lane and E. L. Garton. 1938. 68 pp.

Presents brief description of samples grouped by counties or fields, tabulation of some data, and 58 individual analyses of crude-oil samples.

C38. RI3396. Calibration of Positive-Displacement Oil Meters, by R. E. Heithecker and W. B. Berwald. 1938. 21 pp., 4 figs. (In cooperation with the State of Oklahoma.)

Includes analysis of crude oil from Oklahoma City field (p. 20).

C39.** RI3402. Flow Characteristics, Composition, and Some Liquid-Phase Properties of Hydrocarbon Fluids from a "Combination" Well, by C. K. Eilerts and M. A. Schellhardt. 1938. 34 pp., 15 figs.

Includes analysis of sample of crude oil (condensate) production from Cayuga field, Texas (p. 26).

C40. RI3417. Survey of Crude Oil in Storage, 1936–37, by Petroleum Economics Division and Petroleum and National Gas Division, Bureau of Mines. 1938. 51 pp., 5 figs.

Presents study and statistics on crude oil in storage. 19 complete analyses, in tabular form, of "pipeline-run" samples (pp. 48–51).

C41. RI3423. Chemical and Refining Study of Some Wyoming Black Oils, by H. M. Thorne and Walter Murphy. 1938. 39 pp., 1 fig. (In cooperation with the University of Wyoming.)

Give results of experiments on thermodecomposition of black oils, chemical treatment, and tests of the naphtha before and after processing. Includes individual analyses of crude oils from Oregon Basin, Dallas-Derby, and Garland fields (p. 36–39).

C42. RI3435. Some Asphalts From Oregon Basin (Wyoming) Crude Oil, by K. E. Stanfield. 1939. 17 pp., 9 figs. (In cooperation with the University of Wyoming.)

Presents description of apparatus and procedure for reducing asphaltic crude oil to asphalt and results of tests. Report includes an analysis of crude oil from Oregon Basin field (p. 7).

C43. RI3442. Analyses of Crude Oils From Some Fields of Oklahoma, by O. C. Blade. 1939. 29 pp. (In cooperation with the State of Oklahoma.)

Discusses briefly properties of crude-oil samples collected in some major producing fields of Oklahoma; summarizes some characteristics of crude oils; and presents 44 individual analyses of samples of crude petroleum.

C44. RI3474. Properties of a Petroleum-Reservoir Liquid and Its Residua, With Applications of the Data to Production Problems, by Kenneth Eilerts, R. Vincent Smith, and Alton B. Cook. 1939. 32 pp., 15 figs.

Includes analysis of crude oil from Laredo field, Kansas (p. 20).

C45.** RI3476. Properties of Louisiana Crude Oils. II. Additional Analyses, by E. L. Garton. 1939. 85 pp.

Presents brief history and production data for each field represented, a discussion of analyses, a tabular summary of some data, a list of analyses of Louisiana crude oils previously published, and individual analyses of 72 samples of crude petroleum from 45 fields.

C46. RI3486. Survey of Crude Oils of the Producing Fields of Arkansas, by O. C. Blade and George C. Branner. 1940. 40 pp., 1 fig. (In cooperation with the Arkansas Geological Survey.)

Describes oilfields in Arkansas and discusses characteristics of their crude oils. Includes tabular summary of some analytical data and individual analyses of 45 samples from 24 fields in six counties.

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C47. RI3532. Analyses of Some Illinois Crude Oils, by H. M. Smith. 1940. 27 pp., 1 fig.

Characteristics of samples of crude oil from new Illinois fields are discussed briefly, tabulation is shown of some analytical data, and complete analyses are given of 42 samples from 29 fields.

C48. RI3568. Asphalts From Some Wyoming and Other Asphalt-Bearing Crude Oils, by K. E. Stanfield. 1941. 53 pp., 16 figs. (In cooperation with the University of Wyoming.)

Describes preparation and properties of asphalt fractions from some Wyoming, Arkansas, California, and Mexico crude oils. Includes analyses of 13 samples of crude oil used in the study (pp. 47–53).

C49.** RI3573. Use of Brine in a Kansas Field for Secondary Recovery of Oil, by C. J. Wilhelm, Sam S. Taylor, W. C. Holliman, and E. O. Owens. 1941. 31 pp., 9 figs. (In cooperation with the Kansas State Board of Health.)

Presents description of a "flood project" in eastern Kansas. Includes analysis of crude-oil sample from McCune field (p. 15).

C50.** RI3579. Petroleum-Engineering Study of the Anahuac Field, Chambers County, Tex., by C. B. Carpenter and H. J. Schroeder. 1941. 37 pp., 15 figs.

Discusses geology, development, and production methods in Anahuac field. Includes analyses of two samples of crude oil from Frio and Marginulina sands (pp. 20–21).

C51. RI3592. Analyses of Crude Oils From Some Fields of Oklahoma. II. Southern Oklahoma, by E. L. Garton. 1941. 27 pp., 4 figs. (In cooperation with the State of Oklahoma.)

Presents brief discussion of analyses, tabulation of some data, and individual analyses of 27 samples of crude oils from southern Oklahoma, and, for comparison, five analyses of crude oils from other fields in Oklahoma and one analysis of a Texas crude oil. Includes a table referring to previously published analyses of Oklahoma crude oils.

C52.** RI3642. Specific Volume and Phase-Boundary Properties of Separator-Gas and Liquid-Hydro-Carbon Mixtures, by Kenneth Eilerts and R. Vincent Smith. 1942. 57 pp., 21 figs. (In cooperation with AGA.)

Study of phase relationships of gas and liquid fluids from condensate-type oil wells. Includes tabulated data from analyses of eight condensate samples from Cayuga field, Texas (p. 53).

C53. RI3660. Crude Oils of New Mexico, by E. C. Lane. 1942. 30 pp.

Presents tabular data and 50 individual analyses of crude oils from 41 fields in New Mexico. Includes similar tabulated data for fields whose analyses have been previously published.

C54.** RI3688. Analyses of Crude Oil From Some Fields in Kansas, by E. C. Lane and E. L. Garton. 1943. 95 pp.

Presents, in tabular form, discovery and production information on 120 oilfields in Kansas. Shows tabular data and 174 analyses of crude-oil samples from these fields.

C55. RI3699. Analyses of Crude Oils From Some Fields of Texas, by E. C. Lane. 1943. 52 pp.

Presents information on discovery and production of 74 fields in Texas and gives tabular data and 90 individual analyses of samples of crude oil from these fields.

C56.** RI3720. Magnolia Oil Field, Columbia County, Ark. Part I, Petroleum-Engineering Study, by Charles B. Carpenter and H. J. Schroeder. Part II, Derivation and Application of Material-Balance Equations, by Alton B. Cook. 1943. 115 pp., 22 figs. (In cooperation with the Arkansas Oil and Gas Commission.)

Part I describes successful application of good engineering principles in a typical "water-drive" field. Part II presents a method of applying material-balance equations. Report includes analysis of a sample of the crude oil produced (p. 43).

C57. RI3744. Analyses of Crude Oils From Some West Texas Fields, by Boyd Guthrie. 1944. 45 pp.

Presents 43 analyses of crude-oil samples from fields in west Texas.

C58.** RI3761. History of Water-Flooding of Oil Sands in Kansas, by Peter Grandone. 1944. 146 pp., 52 figs. (In cooperation with the Kansas State Board of Health.)

Report describes history and effects of waterflooding in Kansas. Includes analyses of crude-oil samples from six fields (pp. 13–18).

C59. RI3779. Horizontal Drilling for Oil in Pennsylvania, a Preliminary Report, by C. W. Elder, Jr. 1944. 68 pp., 14 figs.

Describes project in Franklin Heavy field. Includes analysis of crude oil (p. 8).

C60.** RI3783. Air and Gas Injection in the Oil Fields of Illinois, by C. M. Keithly and Thomas Jennings. 1944. 60 pp., 20 figs.

Gives information on 99 air- and gas-injection projects in Illinois stripper oilfields, four of which are described in detail. Includes four individual analyses of crude-oil samples from Robinson, Plymouth, and Colmar fields (pp. 27, 37, 47, and 58).

C61.** RI3792. Water Flooding in the McClosky Limestone in Clay City Oil Field, Clay County, Ill., by C. H. Riggs. 1945. 20 pp., 15 figs.

Describes and discusses water flooding in Clay City field. Includes analysis of a crude-oil sample (p. 11).

C62.** RI3802. Analyses of Crude Oils From Some Fields of Oklahoma. III. Additional Analyses, by O. C. Blade. 1945. 139 pp.

Presents information on discovery and production of 153 fields represented, tabulated data and 248 analyses of crude-oil samples, and a list of published analyses of Oklahoma crude oils.

C63.** RI3818. Gas Injection Into the McClosky Limestone in the Griffin and New Harmony Oil Fields, Indiana and Illinois, by C. H. Riggs. 1945. 28 pp., 17 figs.

Presents discussion of development, production, and reservoir conditions in two fields and estimated oil gained. Includes analysis of a crude oil from New Harmony field by Illinois Geological Survey (p. 20).

C64. RI3906. History of Water Flooding of Oil Sands in North Texas, by Peter Grandone, D. A. Jessup, and D. B. Taliaferro. 1946. 117 pp., 49 figs.

Describes methods of development and operation and gives results of systematic water flooding of oil sands in north Texas. Includes individual analyses of five samples of crude oil from fields in this area (pp. 15–19).

C65.** RI4019. Secondary Recovery Practices and Oil Reserves in the Eastern Part of the Delaware-Childers Field, Nowata County, Okla., by Kenneth H. Johnston and C. H. Riggs. 1946. 50 pp., 30 figs. (In cooperation with the State of Oklahoma.)

Study of successful air- and gas-repressuring project. Includes analysis of crude-oil sample from field (p. 21).

C66. RI4034. Properties of Some Louisiana Crude Oils. III. Additional Analyses, by O. C. Blade and E. L. Garton. 1946. 50 pp.

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Presents information on discovery and production of 64 fields, tabulated data, and 82 analyses of crude-oil samples, and a list of published analyses of Louisiana crude oils.

C67. RI4054. Special Studies of Reservoir Oils in Naval Petroleum Reserve No. 1, Elk Hills Field, Calif., by Alton B. Cook and G. B. Shea. 1947. 60 pp., 31 figs.

Includes analyses of five samples of crude oil from field (pp. 28–29, 36, 44, 51, 59).

C68. RI4289. Analyses of Crude Oils From 283 Important Oil Fields of the United States, by C. M. McKinney and O. C. Blade. 1948. 154 pp.

Individual analyses of 304 samples of crude oil are presented in alphabetical order by State and field name. Table includes information on sources of samples and data on some characteristics revealed by analyses.

C69. RI4450. Petroleum-Engineering Study of the West Red River Field, Tillman County, Okla., by H. B. Hill, Kenneth H. Johnston, T. L. Coleman, and J. M. Seward. 1949. 97 pp., 35 figs. (In cooperation with Federal Geological Survey.)

Study of development and production of field. Includes analyses of two crude-oil samples (pp. 33–34).

C70. RI4517. Analytical Distillation of Crude Oils at High Altitudes by the Bureau of Mines Routine Method, by Welton J. Wenger and John S. Ball. 1949. 9 pp., 4 figs. (In cooperation with the University of Wyoming.)

Describes modification of equipment developed for use at high altitudes. Gives results of some comparative distillations in tabular form and includes complete analyses of four crude oils and distillation data of a fifth crude-oil sample (pp. 4, 6, 8).

C71. RI4594. Petroleum-Engineering Study of the New Hope Field, Franklin County, Tex., by Charles B. Carpenter, Kenneth F. Anderson, and Alton B. Cook. 1949. 88 pp., 39 figs.

Includes four analyses of crude-oil samples from separate zones in field (pp. 30–33).

C72. RI4657. Analyses of Some Crude Oils From the Middle East, South America, and Canada, by O. C. Blade, E. L. Garton, and C. M. McKinney. 1950. 45 pp.

Presents individual analyses of 36 samples of crude oils from fields in eight countries and summarizes, in tabular form, sources of samples and data on some important characteristics as revealed by analyses. Also includes a list giving field names and sample numbers of analyses of foreign crude oils that have been published and their references.

C73. RI4687. Analyses of Crude Oils From Some Fields of Southeastern United States, by O. C. Blade and E. L. Garton. 1950. 36 pp.

Presents individual analyses of 51 samples of crude oil from areas in Alabama, Florida, Kentucky, Mississippi, Tennessee, and Virginia. Table shows sources of samples and summarizes certain important characteristics, as revealed by analyses.

C74. RI4740. Petroleum-Engineering Study of the Weber Pool, Washington County, Okla., by Kenneth H. Johnston and C. W. Moot, Jr. 1950. 47 pp., 38 figs. (In cooperation with the State of Oklahoma.)

Presents results obtained by air and gas repressuring and by water flooding. Includes one complete analysis of a sample of crude oil from the Weber Pool zone of Bartlesville-Dewey field (p. 13).

C75. RI4761. Variance in Characteristics of the Oil in the Weber Sandstone Reservoir, Rangely Field, Colo., by Cecil Q. Cupps, Phillip H. Lipstate, Jr., and Joseph Fry. 1951. 68 pp., 34 figs.

Give results of comprehensive study of physical characteristics of original oil in Weber sandstone reservoir. Includes complete routine analyses of 18 samples of crude oil (pp. 60–68).

C76. RI4768. Variable Characteristics of the Oil in the Tensleep Sandstone Reservoir, Elk Basin Field, Wyoming and Montana, by Ralph H. Espach and Joseph Fry. 1951. 24 pp., 13 figs. (In cooperation with the University of Wyoming.)

Data were obtained from tests on samples of oil from bottom of nine wells analyzed for certain physical properties and of gas in solution in the oil. Results indicate oil in Tensleep reservoir has unusually varying physical characteristics, which are related to position in structure. Complete routine analyses of six samples of the crude oil (from Wyoming side) are included (pp. 13–15).

C77. RI4892. Petroleum-Engineering Study of K.M.A. Reservoir, Southwestern Part K.M.A. Oil Field, Wichita and Archer Counties, Tex., by Rollie P. Dobyns, Marion L. Ayers, and Roger E. Lewis. 1952. 88 pp., 42 figs. (In cooperation with the North Texas Oil and Gas Association, Wichita Falls, Tex.)

Results of development and oil-recovery studies are given. Complete routine analyses of two crude-oil samples are shown in table 20 (pp. 37–38).

C78. RI4899. Petroleum-Engineering Study of Gas Injection in the Cabin Creek Field, Kanawha and Boone Counties, W. Va., by Joe N. Magee and Sam S. Taylor. 1952. 24 pp., 16 figs.

Results of study of increased oil recovery by gas injection in part of field are given. One complete routine analysis of a sample of crude oil is presented in table 9 (p. 21).

C79. RI4913. Petroleum-Engineering Study of the Quapaw Pool, Osage County, Okla., by James A. West. 1952. 39 pp., 26 figs. (In cooperation with the State of Oklahoma.)

History, development, geology, and reservoir conditions of field are described. One complete routine analysis of a sample of crude oil is given in table 2 (p. 13).

C80. RI4917. Petroleum-Engineering Study of Healdton Oil Field, Carter County, Okla., by C. H. Riggs, John E. Wey, Edward Sanabria, Jr., Paul Meadows, William C. Smith, and James A. West. 1953. 76 pp., 42 figs. (In cooperation with the State of Oklahoma.)

Describes production history and geology of field, presents tabulated data of results of field and laboratory and work on core samples, and recommends controlled waterflooding to recover much additional oil. Complete routine analyses of three samples of crude petroleum are shown in table 7 (pp. 35–37).

C81. RI4959. Analyses of Crude Oils From Some West Texas Fields. II. Additional Analyses, by E. L. Garton and C. M. McKinney. 1953. 55 pp., 1 fig.

Presents individual analyses of 100 samples of crude oil collected during 1946–52. Data representing fields in Scurry County (Canyon Reef trend) and Spraberry-trend areas are grouped separately. A table shows sources of samples and summarizes certain important characteristics, as revealed by analyses.

C82. RI5018. Petroleum-Engineering Study of Flat Rock Oil Field, Osage County, Okla., by C. H. Riggs, J. E. Wey, and J. V. Maude. 1954. 42 pp., 24 figs. (In cooperation with the State of Oklahoma.)

Describes geology, reviews production history, and estimates remaining oil reserves of the field. Study indicates that carefully controlled waterflooding in some areas of the field may increase substantially recovery

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of additional oil. A distillation analysis of a sample of crude oil by routine method is given in table 6 (p. 17) and comparisons of chemical and physical properties of crude-oil samples from seven formations in field are shown in table 7 (p. 18).

C83. RI5048. Petroleum-Engineering Study of the Ellenburger Reservoir, Big Lake Field, Reagan County, Tex., by K. F. Anderson, W. C. Elliott, Jr., and J. L. Moore. 1954. 28 pp., 17 figs.

Geology, development, and production of this near-depleted reservoir are summarized, and estimates of remaining reserves are given. Routine analyses of a sample of condensate fluid first produced and of crude oil which developed later are given in tables 5 and 6, respectively (pp. 10–11).

C84. RI5055. Petroleum in the Williston Basin, Including Parts of Montana, North and South Dakota, and Canada, as of July 1953, by K. B. Lindsey. 1954. 70 pp., 1 fig.

History, development, and production to date, known geology, drilling, transportation, and marketing conditions of region are reviewed. Brief descriptions of fields are given. A bibliography of 53 articles is included. Table 7 summarizes important information on 21 crude oils from various areas and horizons in the basin. In the appendix (pp. 15–70) are given complete routine analyses of 22 samples of crude oil from region.

C85. RI5069. The Effect of Injected Gas Upon the Characteristics of Oil in the West Basal Sundance Reservoir, Lance Creek Oil Field, Niobrara County, Wyo., by C. Q. Cupps, R. H. Espach, and Joseph Fry. 1954. 84 pp., 21 figs.

Study of data obtained from 11 subsurface samples of crude oil taken at various levels indicates some increase of liquefied petroleum gases. Changes of characteristics of oil and of components of liberated gases are shown by comparable analyses. Routine analyses of eight samples of crude oil are included throughout text.

C86. RI5106. A New Method of Determining Variations in Physical Properties of Oil in a Reservoir, With Application to the Scurry Reef Field, Scurry County, Tex., by Alton B. Cook, G. B. Spencer, F. P. Bobrowski, and Tim Chin. 1955. 47 pp., 22 figs.

Correlations of data on subsurface-oil samples, together with field gas-oil-ratio test data, were used to estimate physical properties of the oil throughout the reservoir. Table 12 is a routine analysis of a pipeline sample of crude oil typical of the area (p. 40).

C87. RI5211. Secondary-Recovery Potentialities of the Buckrange Reservoir, Stephens Oilfield, Columbia, Nevada, and Ouachita Counties, Ark., by Paul Meadows and Murphy E. Hawkins. 1956. 40 pp., 16 figs. (In cooperation with the Arkansas Oil and Gas Commission.)

Production history and geology of Buckrange reservoir described, data and calculations given for estimated recovery by waterflood methods. A routine analysis of a crude-oil sample is shown as table 3 (p. 21). This analysis was first published in Arkansas Geological Survey Bulletin 2, 1935 (pp. 238–239; *see* G1).

C88. RI5249. Analyses of Crude Oils From Some California Fields, by E. L. Garton and C. M. McKinney. 1956. 53 pp.

Analyses by Bureau of Mines routine method are presented of 88 samples of crude petroleum from 60 fields in California. Recent production data are tabulated for these fields, and years of their discovery are listed. Summaries of general information concerning sources of samples and of analytical data are given in a table. Includes list of publications containing analyses of California crude oils.

C89. RI5309. Characteristics and Analyses of Ninety-two Colorado Crude Oils, by W. J. Wenger, M. L. Whisman, W. J. Lanum, and J. S. Ball. 1957. 60 pp., 5 figs. (In cooperation with the University of Wyoming.)

Brief historical background, maps showing locations of the oil and gas fields in the State, some geological information, and a summary of data in tabular form are presented in body of report. Studies of some crude oils are shown by comparing on charts correlation indexes of their distillate fractions. Individual analyses of 92 samples of crude petroleum from 73 fields are given in appendix.

C90.* RI5376. Analyses of Crude Oils From 470 Important Oilfields in the United States, by C. M. McKinney and E. L. Garton. 1957. 276 pp. $1.25.

Presents individual analyses of 492 samples of crude petroleum from 470 separate fields and areas, arranged in alphabetical order by State and field name, similar to Bureau of Mines Bulletin 291 and Report of Investigations 4289, to bring such information to date. A table shows geological information on the sources of the samples and some important characteristics of properties as revealed by the analyses.

C91. RI5447. Analyses of Some Crude Oils From Alaska, by C. M. McKinney, E. L. Garton, and F. G. Schwartz. 1959. 36 pp., 7 figs.

Routine analyses are presented of 20 samples of crude petroleum from five areas of the Arctic slope of Alaska. Tables show information on the source of the samples and a summary of their general characteristics as revealed by the analyses. Inspection data are presented for gasolines prepared from some of the samples for diesel fuels, and for other products where possible. Included is some information on characteristics of 19 seepage samples obtained in 1943 by a Bureau of Mines oil-reconnaissance party. A map shows approximate locations from which all samples were obtained.

SECTION D. COOPERATIVE ENGINEERING FIELD REPORTS

D1.** OBC1. Petroleum Engineering in the Deaner Oil Field, Okfuskee County, Okla., by M. J. Kirwan and F. X. Schwarzenbek. 1921. 72 pp., 1 pl., 21 figs. (In cooperation with the State of Oklahoma and the Bartlesville Chamber of Commerce.)

Engineering study of field. Includes analyses of two crude-oil samples (pp. 39–40).

D2.** RMP. Report of Operations, Rocky Mountain Petroleum Association, from May 16, 1919 to May 15, 1921, by F. B. Tough and others. 1921. 93 pp., 24 figs. (In cooperation with the Rocky Mountain Petroleum Association.)

Engineering report on work in seven fields. Analyses of three crude oils from Mule Creek field included (pp. 60–62).

D3.** GSA. The El Dorado, Arkansas, Oil and Gas Field, by A. W. Bell and J. B. Kerr. 1922. 93 pp., 5 figs., 14 pl. (In cooperation with the Federal Geological Survey, the University of Arkansas, and the Arkansas State Bureau of Mines, Manufactures, and Agriculture.)

Engineering study of field. Includes analysis of a crude-oil sample (p. 49).

D4.** SLA11. The Haynesville Oil Field, Claiborne Parish, La., by W. W. Scott and B. K. Stroud. Louisiana Department of Conservation Bull. 11. 1922. 26 pp., 2 figs. (In cooperation with the Bureau of Mines.)

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Engineering study of field. Includes analysis of a crude-oil sample (p. 10).

D5.** OBC2. Petroleum Engineering in the Slick Oil Field, Creek County, Okla., by F. X. Schwarzenbek and J. S. Ross, with a chapter on Dehydration Methods Used in the Slick Field, by J. H. Cable. 1922. 67 pp., 5 pl., 15 figs. (In cooperation with the State of Oklahoma and the Bartlesville Chamber of Commerce.)

Includes analyses of three crude-oil samples (pp. 48–50).

D6.** OKL3. Preliminary Report on Petroleum Engineering in the Tonkawa Oil Field, Kay and Noble Counties, Okla., by J. S. Ross. 1923. 36 pp., 6 figs. (In cooperation with the State of Oklahoma.)

Engineering study of field. Includes four analyses of crude-oil samples (pp. 29–32).

D7.** OBC3. Engineering Report of the Chickasha Gas Field, Grady County, Okla., by M. J. Kirwan and T. E. Swigart. 1923. 32 pp., 8 figs. (In cooperation with the State of Oklahoma and the Bartlesville Chamber of Commerce.)

Includes an analysis of a crude-oil sample from the field (p. 29).

D8.** OIK. Petroleum Engineering in the Cromwell Oil Field, Seminole and Okfuskee Counties, Okla., by C. O. Rison and J. R. Bunn. 1924. 38 pp., 6 figs. (In cooperation with the Office of Indian Affairs and the State of Oklahoma.)

History of field, study of its structure, drilling methods, production, and water problems. Includes analysis of sample of crude oil (p. 25).

D9.** IOA. Petroleum Engineering in the Fox and Graham Oil and Gas Fields, Carter County, Okla., by H. C. George and J. R. Bunn. 1924. 81 pp., 3 pl., 10 figs. (In cooperation with the Office of Indian Affairs, the State of Oklahoma, and the Ardmore Chamber of Commerce.)

Field-engineering study. Includes nine analyses of crude oils from Fox, Graham, and Wildcat Jim fields (pp. 68–76).

D10.** EDC. Engineering Report on the Smackover Oil and Gas Field, Union and Ouachita Counties, Ark., by P. S. Haury and R. B. Kelly. 1924. 30 pp., 7 pl., 4 figs. (In cooperation with the Chamber of Commerce, El Dorado, Ark.)

Presents results of a study of three important subsurface oil zones in field. Includes five analyses of crude-oil samples (pp. 10–14).

D11.** WYO. Petroleum Engineering in the Lance Creek Field, Niobrara County, Wyo., by K. B. Nowels and E. J. Dewees. 1926. 54 pp., 10 figs. (In cooperation with the University of Wyoming.)

Study of water-encroachment problem in this field. Includes analyses of two crude-oil samples (pp. 53–54).

D12.** OGS36. Petroleum Engineering in the Papoose Oil Field, Okfuskee and Hughes Counties, Okla., by J. R. Bunn, with a chapter on the Geology of the Papoose Oil Field, by Louis Roark. Oklahoma Geol. Survey Bull. 36. 1926. 61 pp., 11 figs. (In cooperation with Bureau of Mines.)

Study of field. Includes two analyses of crude oils from Gilcrease and Papoose fields (pp. 49–50).

D13.** OBC4. Engineering Report on the Davenport Oil Field, Lincoln County, Okla., by R. R. Brandenthaler, K. C. Sclater, and H. M. Kent. 1926. 48 pp., 12 figs. (In cooperation with the State of Oklahoma and the Bartlesville Chamber of Commerce.)

Engineering study of field. Includes analyses of two crude-oil samples (pp. 47–48).

D14.** TEX.1. Petroleum Engineering in Wortham Oil Field, Limestone and Freestone Counties, Tex., by H. B. Hill and Chase E. Sutton. 1927. 55 pp., 6 pl., 11 figs.

Study of development, geology and structure, operating methods, and water problems of Wortham field. Table 5 is an analysis of the crude oil based upon the averages of four samples (p. 21).

D15.** NTG. Engineering Study of the Texhoma-Gose Pool, Archer County, Tex., with Special Reference to Methods of Increasing Recovery, by Chase E. Sutton, Carol J. Wakenhut, and H. B. Hill. 1928. 45 pp., 12 figs. (In cooperation with the North Texas Geological Society.)

Includes two analyses of crude-oil samples (pp. 6–7).

D16.** OKL.5. Preliminary Engineering Report on the Seminole Pool, Seminole County, Okla., by C. R. Swarts, C. R. Bopp, and W. S. Morris. 1928. 57 pp., 9 figs. (In cooperation with the State of Oklahoma.)

Study of geology, structure, production, and water and corrosion problems of field. Includes analyses of two crude-oil samples (pp. 28–29).

SECTION E. INFORMATION CIRCULARS

E1.** IC6014. Analyses of Panhandle and Big Lake, Texas, Crude Oils, by N. A. C. Smith. 1926. 11 pp.

Gives brief discussion, tabulation of some data, and detailed analyses of four Panhandle and two Big Lake crude oils and, for comparison, analyses of two crude-oil samples from Lima district, Ohio.

E2. IC7470. Bibliography of Reports Containing Analyses of Crude Oils by the Bureau of Mines Routine Method, by Elizabeth Hughes and O. C. Blade. 1948. 68 pp.

Bibliography and finding list of analyses to January 1, 1948. Analysis of a sample of crude oil from the West Edmond, Okla., field is shown as an example (p.3).

E3. IC7643. Petroleum and Natural-Gas Research Program, Bureau of Mines, Fiscal Year 1951, by R. A. Catlell and others. 1952. 46 pp., 17 figs.

Reviews work by Petroleum and Natural-Gas Branch during the fiscal year. Figure 10 (follows p. 30) is a reproduction of the laboratory report form showing the complete routine analysis of a sample of crude oil from the discovery well of Beaver Lodge field in North Dakota.

E4. IC7873. Results of Waterflooding in Kansas Oil Sands Containing Viscous Crude Oils, by J. P. Powell. 1959. 45 pp., 13 figs.

Study of effects of waterflooding on gravities and viscosities of crude oils in six projects in eastern Kansas. Each project is discussed, and tabular data are presented. Included are routine analyses of 13 samples of crude petroleum from Big Sandy, Edna, Hepler, Humbolt-Chanute, LaCygne-Cadmus, and Neosho Falls fields.

E5. (This report.) Analysis of a sample of crude petroleum from a recently developed field is shown in table 1.

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SECTION F. PRESS RELEASES

Some analyses of crude oils have appeared in Bureau of Mines press releases. Most of these analyses have been included later in reports of investigations. In the releases listed below, however, are analyses that have not been published elsewhere.

F1.** Bureau of Mines Analyzes Oil From New Wyoming Well. July 12, 1935.

Brief discussion and analysis of sample from discovery well of Medicine Bow field, Carbon County, Wyo.

F2.** Bureau of Mines Analyzes Sherman, Michigan, Crude Oil. Jan. 16, 1937.

Discussion and analysis of sample from discovery well of field.

F3.** Petroleum From Falls City, Nebr., Field. July 3, 1940.

Brief discussion and analysis of crude-oil sample from second producing well in Nebraska.

F4.** Analysis of Crude Oil From a Recent Discovery Well in Phillips County, Kans. Oct. 18, 1950.

Brief discussion and analysis of a sample from discovery well in Logan pool, now Ray field.

SECTION G. OTHER PUBLICATIONS

G1.** Oil and Gas Geology of the Gulf Coastal Plain in Arkansas, by W. C. Spooner, With a Chapter on Upper Cretaceous Ostracoda, by Merle C. Israelsky. Arkansas Geol. Survey Bull. 2, 1935. Parke-Harper Printing Co., Little Rock, Ark. 516 pp., 95 figs., 22 pl., 57 tables.

Geologic study of oil and gas areas in Arkansas. References made to Bureau of Mines reports and portions of analyses shown. Complete routine analyses of three samples of Arkansas crude oils are included (pp. 190 and 238–240).

G2.** Major Source of High-Gravity Crude. All Production in Seminole Pools Has Exceptional High Gravity, by A. J. Kraemer. Oil and Gas Jour., vol. 26, No. 19, Sept. 29, 1927, pp. 82, 114.

Article discusses properties and presents two tables summarizing properties of some crude oils from area. Complete routine analyses are given for six representative samples.

G3. Geology and Mineral Resources of Washington County, Okla., by Malcolm C. Oakes. Oklahoma Geol. Survey Bull. 62. 1940. 208 pp., 3 pl., 19 figs. (Obtainable from Oklahoma Geological Survey, Norman, Okla.; 80 cents.)

Geologic and economic mineral study of Washington County. Includes five analyses by Bureau of Mines of crude oils from wells in county (pp. 109–114).

G4. The Oil and Gas Industry of Colorado, by Clark F. Barb. Colorado Sch. Mines Quart., vol. 37, No. 2, April 1942. 130 pp., 1 pl., 29 figs. (Obtainable from the Colorado School of Mines, Golden, Colo., $2.00.)

General history and geology of producing fields in State and more detailed information on individual fields. Oil-refining industry in Colorado is reviewed, and other information on consumption of petroleum products, oil shale and coal substitutes, and petroleum laws is given. Included are 19 analyses of crude oils by Bureau of Mines at Laramie, Wyo. (pp. 81–90).

G5. The Oil and Gas Resources of New Mexico, compiled by Robert L. Bates. New Mexico Bureau of Mines Bull. 18. 1942. 320 pp., 35 pl., 22 figs. 2d ed.; supersedes Bull. 9. (Obtainable from New Mexico Bureau of Mines and Mineral Resources, Socorro, N. Mex., $2.50.)

Study of geology and oil and gas fields in New Mexico similar to Bull. 9. Four analyses of crude oils by Bureau of Mines are included (pp. 97 and 171).

G6. Realtionship of Crude Oils and Stratigraphy in Parts of Oklahoma and Kansas, by Research Committee, Tulsa Geological Society. Bull. Am. Assoc. Petrol. Geol. 31, 1947, pp. 92–148.

A study is described, from tabulated data of several hundred analyses of crude oils, of some correlations between character of oils and their geological environments. Report gives one complete crude-oil analysis (p. 95).

G7. Bureau of Mines Analyses of Subsurface Oil Samples From North Lindsay Field, McClain County, Okla., by Alton B. Cook, G. B. Spencer, F. B. Bobrowski, and E. J. Dewees. Petrol. Eng., vol. 19, No. 13, September 1948, pp. 158–168.

Discusses characteristics of gas-saturated fluids obtained with subsurface equipment from Bromide sand horizon of field. Data are presented on field and laboratory tests of samples, pressure-volume-temperature relationships of original oil, and fractional analyses of gas liberated from the samples. Routine analysis of a sample of stabilized crude oil is shown in table 8.

G8. Crude Oils of Wyoming, by John S. Ball and Ralph H. Espach. Petrol. Eng., vol. 20, No. 2, November 1948, pp. 229–234.

Discusses types of crude oils produced in Wyoming. Certain tabulated data from 140 analyses permit comparison of groups of samples from different geologic horizons. Correlation-index curves of typical samples are illustrated. Two complete analyses of samples from the Lance Creek and Elk Basin fields are given (p. 230).

G9. The Crude Oils of the U.S.A., 1935–45, by Harold M. Smith. Science of Petroleum (London), vol. 5, 1950.

Discusses applications of analyses of crude oils and gives results of studies of their naphthas. In table 2 (p. 7) are data from 165 Bureau of Mines analyses of crude oils from principal fields in the United States.

G10. Refining Properties of New Crudes. Part 1.—Significance and Interpretation of Bureau of Mines Routine Crude-Oil Analysis, by N. A. C. Smith, H. M. Smith, and C. M. McKinney. Petrol. Proc., vol. 5, No. 6, June 1950, pp. 609–614.

First of a series, this article discusses significance of routine analysis. A typical Bureau of Mines analysis of a sample of crude oil from TXL field in West Texas is presented as example. Graphic and correlative methods of comparison with other crude oils so analyzed are shown, and finally an interpretation of the data in terms of commercial products and an example of the usefulness of the analysis are given. Table 1 is complete routine analysis, and table 2 compares a summary of data with summaries of analyses of 10 selected crude oils previously studied.

G11. Refining Properties of New Crudes. Part 2.—Characteristics of Crude Oils From the Scurry County, Tex., Area, by N. A. C. Smith, H. M. Smith, and C. M. McKinney. Petrol. Proc., vol. 5, No. 7, July 1950., pp. 730–734.

Article discusses crude oils from important production in Scurry, Borden, and Kent Counties in West Texas and compares them with crude oils from other areas in Texas. Scurry-area oils are very similar to East Texas crude oil in many respects. Table 1 summarizes data of important characteristics of 16 samples of crude oils from region compared with data of a typical East Texas crude oil. Tables 2, 3, and 4 are routine analyses of crude-oil samples from Sharon Ridge, North Snyder, and Dermott fields, respectively.

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G12. Refining Properties of New Crudes. Part 3.—Oils From 20 New Discoveries in the Rocky Mountain Region Analyzed, by John S. Ball, W. J. Wenger, and M. L. Whisman. Petrol. Proc., vol. 5, No. 8, August 1950., pp. 842–846.

Important characteristics of 20 crude oils, representative of 12 new fields and of 8 new horizons in old fields discovered during 1948 and 1949, are discussed, and summaries of data from routine analyses are listed in tables 1–5 and 7–9. Table 6 presents complete analysis of a crude oil from Sussex field, now part of the Meadow Creek and North Meadow Creek area.

G13. Refining Properties of New Crudes. Part 4.—Crude Oils From Recent Discoveries in Kansas, by N. A. C. Smith, H. M. Smith, and C. M. McKinney. Petrol. Proc., vol. 6, No. 9, September 1950, pp. 960–964.

Tabulated data are given of 15 crude oils from recently discovered fields in Kansas, and comparisons are made with data from five analyses of samples from older fields. Tables 2 and 3 present analyses of crude oils from the Davis Ranch and North Hammer fields, respectively.

G14. Refining Properties of New Crudes. Part 5.—Characteristics of Crude Oils From the "Golden Trend" in Oklahoma, by N. A. C. Smith, H. M. Smith, and C. M. McKinney. Petrol. Proc., vol. 6, No. 9, September 1951, pp. 987–990.

Tabulates summaries of data from 36 analyses of crude oils from 19 fields along "Golden Trend" in Garvin and McClain Counties, Okla. Comparisons are made with data on crude oils from three large Midcontinent fields. Analyses of samples from North Hoover, North Lindsay, and South Maysville fields are shown as tables 2, 3, and 4, respectively.

G15. Refining Properties of New Crudes. Part 6.—Crude Oils From the Julesburg Basin, Colorado, Nebraska, and Wyoming, by W. J. Wenger and John S. Ball. Petrol. Proc., vol. 7, No. 6, June 1952, pp. 821–825.

Summaries of information on 42 crude oils from fields in region, analyzed by Bureau of Mines procedure, are presented in table 1. The oils are shown to be similar to those of Powder River Basin. General properties and possible utilization are discussed. Table 2 is analysis of Huntsman field, Nebraska, crude oil, and tables 2 and 3 are analyses of samples from Yenter and Armstrong fields in Colorado, respectively.

G16. Characteristics of Crude Oils From the Powder River Basin, by W. J. Wenger and W. J. Lanum. Petrol. Eng., vol. 24, No. 10, September 1952, pp. A60–A71.

Crude oils are discussed and compared by geologic formation. A summary of information and data on 37 samples from fields in region is shown in table 2 in five groups, according to horizons of production. Correlation-index curves are shown for some oils. Table 1 is an analysis of crude oil from Meadow Creek field.

G17. Refining Properties of New Crudes. Part 7.—Crude Oils From Recent Discoveries in Canada, by C. M. McKinney and H. M. Smith. Petrol. Proc., vol. 7, No. 9, September 1952, pp. 1, 270–271, 273.

Routine analyses of 11 crude oils from nine Canadian fields are discussed. Table 1 presents a summary of pertinent data of oils and includes for comparison similar data on two Midcontinent crude oils. Data from complete inspection tests, including octane numbers of gasolines and cetane numbers of diesel fuels, are given for crude oils from two larger fields. Tables 2, 3, and 4 are routine analyses of samples from Campbell, Leduc, and Stettler fields, respectively.

G18. Refining Properties of New Crudes. Part 8.—Crude Oils From the Spraberry, Tex., Area, by C. M. McKinney and H. M. Smith. Petrol. Proc., vol. 8, No. 8, August 1953, pp. 1164–1167.

Summarized data are given in table 1 for 10 crude oils from "Spraberry Trend" and compared with data on crude oils from East Texas and Scurry County area. Octane numbers and cetane numbers of the gasoline and diesel fuels, respectively, are given for two crude oils. Routine analyses are shown in tables 2, 3, and 4 for samples from Tex Harvey, Pembrook, and Spraberry (Deep) fields, respectively.

G19. Analyses of Crude Oils From Some Oklahoma Fields, by C. M. McKinney and E. L. Garton. Petrol. Eng., vol. 25, No. 13, December 1953, pp. A50–A53.

Table 1 summarizes, by geographic region, pertinent data for Oklahoma crude oils. Complete routine analyses are given for samples from Southwest Antioch, Burbank, West Edmond, and Oklahoma City fields in tables 2, 3, 4, and 5, respectively.

G20. Characteristics of Crude Oils From Big Horn Basin Fields, by W. J. Wenger and W. J. Lanum. Petrol. Eng., vol. 26, No. 2, February 1954, pp. A52–A60.

Summaries of data from information and analyses of 103 crude oils are tabulated according to geologic time periods of productive formations. Low-sulfur oils were produced from Cretaceous formations, and high-sulfur oils came from older horizons. Charts indicate possible correlations between types of oil and geologic source. Table 1 is routine analysis of a sample of crude oil from Bonanza field, Wyoming.

G21. Crude-Oil Characterization by the Bureau of Mines Routine Method, by H. M. Smith and John S. Ball. Petrol. Eng., vol. 26, No. 6, June 1954, pp. C12–C14.

Brief discussion, a chart of procedure, and references to Bureau publications are given to indicate routine method of analyzing crude oil and to evaluate results, particularly correlation-index numbers. A plot of C.I. values of five crude oils is illustrated. Routine analysis of a sample of crude petroleum from East Texas field is shown as table 1.

G22. Characteristics of Petroleum From Williston Basin Fields, by W. J. Wenger and W. J. Lanum. Petrol. Eng., vol. 26, No. 7, July 1954, pp. C43, C45–C47.

Brief discussion of fields and of crude oils analyzed is given. Routine analysis of sample of petroleum from Beaver Lodge field in North Dakota is shown as table 1.

G23. Professional Paper (in press): Test Wells, Square Lake and Wolf Creek Areas, Alaska, by Geological Survey, U.S. Department of the Interior.

Geological study of horizons and areas. Included is a Bureau of Mines analysis of a sample of crude oil from the Wolf Creek area (pp. 190–190a).

G24. Book (in press): Oil and Gas Possibilities of Utah—Reevaluated 1956, by Utah Geological and Mineralogical Survey, with a chapter entitled: "Characteristics of Crude Oils From Utah," by the Bureau of Mines.

Some summarized data from 12 routine analyses of Utah crude oils are included, and one complete analysis of a sample of crude petroleum from Ashley Creek field is shown.

G25. Hydrocarbons in the Lubricant Fraction of Petroleum, by F. D. Rossini. Refiner and Natural Gasoline Mfr., vol. 17, No. 11, November 1938, pp. 557–567.

A brief description of study, which is a continuation of work on API Project 6 at National Bureau of Stand-

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ards on hydrocarbons in crude petroleum. Summary lists types of hydrocarbons found. Included as table 1 is routine analysis by Bureau of Mines of a sample of original supply of oil from a well in the Ponca City, Okla., field which was obtained in 1928 for project.

G26. Distribution of Nitrogen Compounds in Wilmington, Calif., Petroleum, by R. V. Helm, D. R. Latham, C. R. Ferrin, and J. S. Ball. Chem. Eng. Data Series, vol. 2, No. 1, August 1957, pp. 95–100.

As part of API Research Project 52, study describes briefly procedures of deasphalting crude oil and segregating nitrogen-containing material. Table 2 is a routine analysis of a sample of Wilmington oil, which contains 0.65 percent nitrogen.

G27. Characteristics of Petroleum in the Powder River Basin, by W. J. Wenger and B. W. Reid. Wyoming Geol. Assoc. 13th Field Conf. Guidebook, 1958, pp. 148–156.

From tabulated abridged data of 101 analyses of crude oils from 69 fields results of study are shown. Two major types of petroleum found—low-sulfur and high-sulfur—are described, and two charts of some correlation index curves are illustrated. A map indicates fields and areas in basin. . Table 1 is complete routine analysis of crude-oil sample from Salt Creek field.

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TABLE 3.--Finding list for crude-oil analyses

NORTH AMERICA

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference
United States				
Alabama:				
Gilbertown		45072	RI 4687	1
Pollard		54023	RI 5376	1
Alaska:				
Barrow, South		50025	RI 5447	2
Do.		51027	do.	3
Barrow Lakes		38458	do.	1
Cape Simpson		48089	do.	14
Do.		50110	do.	15
Do.		50137	do.	16
Do.		51037	do.	17
Controller Bay. See Katalla or Controller Bay.				
Fish Creek		49039	RI 5447	18
Do.		49045	do.	19
Katalla or Controller Bay		23276	B 291	1

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Umiat		46064	RI 5447	4
Do.		46164	do.	5
Do.		47017	do.	6
Do.		50103	do.	7
Do.		50104	do.	8
Do.		51050	do.	9
Do.		51084	do.	10
Do.		52001	do.	11
Do.		52010	do.	12
Do.		52011	do.	13
Do.		52094	do.	20
Wolf Creek			See G 23	Pp. 190, 190a

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference 1/
Appalachian region:				
Appalachian mixed		37137	RI 3417	3, T. 19
Eureka grade oil. See references in West Virginia.				
Maryland grade oil. See references in West Virginia.				
Paraffin base crude oil. See reference in West Virginia.				
Arkansas:				
Atlanta		39001	RI 3486	1
Do.		39002	RI 4289	1
Bradley		25573	RI 3486	2
Bragg (Camden)	Bragg well	39003	do.	3
Buckner		38199	do.	4
Camden. See Bragg.				
Champagnolle	Rainbow City	38211	RI 3486	18
Do.	do.	38304	do.	17
Do.	do.	38305	do.	19
Do.	do.	38306	do.	20
Do.	do.	39005	do.	16
Dorcheat-Macedonia		42044	RI 4289	2

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El Dorado, East		38212	RI 3486	5
El Dorado, South	El Dorado	716	RI 2293	P. 38
	do.		RI 2807	P. 20
	do.		See D3	P. 49
	do.		See G1	P. 190
Do.	do.	717	B 291	2
	do.		RI 2293	P. 39
	do.		RI 2322	P. 48
	do.		RI 2364	P. 74
	do.		RI 2416	P. 57
	do.		RI 2582	P. 14
Do.	do.	979	B 231	P. 20
	do.		B 291	3
	do.		RI 2582	P. 3
Do.	do.	980	B 291	4
Do.	do.	38297	RI 3486	6
Do.	do.	38299	do.	7
Falcon		39004	do.	8
Fouke		47025	RI 5376	2
Fourteen-eighteen-fourteen. See Hillsboro				
Garland City		38216	RI 3486	10
Hillsboro	Fourteen-eighteen-fourteen	38303	do.	9
Irma		23275	B 291	5
Do.		38217	RI 3486	11
Do.		39L-7	RI 3568	P. 49
Lenz	Lenz well	38203	RI 3486	12
Lewisville (Stamps)		39178	do.	13
Lisbon		38213	do.	14

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TABLE 3.—Finding list for crude-oil analyses - Continued

NORTH AMERICA
United States

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Arkansas (con.)				
Macedonia. See Dorcheat-Macedonia.				
Magnolia		38191	RI 3486	15
Do.		41454	RI 3720	T. 9
Do.		42084	RI 4289	3
			RI 5376	4
McKamie-Patton	McKamie	42047	do.	3
Midway		42011	RI 4289	4
			RI 5376	5
Rainbow City. See Champagnolle.				
Rodessa[2]		38200	RI 3486	22
Do.		38201	do.	23
Do.		38202	do.	21
Schuler		38193	do.	24
Do.		38194	do.	27
Do.		38195	do.	28
Do.		38196	do.	26
Do.		38198	do.	25
Do.		41295	RI 4289	5
			RI 5376	6
Smackover		23256	B 291	6
			See D10	P. 12
Do.		23260	B 291	7
			See D10	P. 14
Do.		23503	do.	P. 10
Do.		23509	B 291	8
			See D10	P. 11
Do.		24229	B 291	9
			See D10	P. 13
Do.		37053	RI 3417	17, T. 19
			RI 4289	6a

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Do.		38214	RI 3486	35
Do.		38215	do.	36
Do.		38284	do.	31
Do.		38285	do.	29
Do.		38288	do.	30
Do.		38289	do.	32
Do.		38290	do.	33
			RI 4289	6b
			RI 5376	7
Do.		38291	RI 3486	34
Do.		39L-19	RI 3568	P. 52
Smackover (Snow Hill)	Snow Hill	38293	RI 3486	37
Stamps. See Lewisville.				
Stephens		281001	RI 5211	T. 3
			See G1	Pp. 238-239
Do.		281002	B 490	T. 4
			RI 3486	38
			See G1	Pp. 239-240
Do.		39006	RI 3486	39
Stephens (Deep-Smart)	Stephens-Smart	46083	RI 4289	7
	do.		RI 5376	8
Troy		38219	RI 3486	41
Do.		39007	do.	40
Urbana		38300	do.	43
Do.		38302	do.	42
Do.		39L-20	RI 3568	P. 53
Village		38192	RI 3486	44
			RI 4289	8
Wesson		48043	RI 5376	9
Woodley		23463	B 291	10
Do.		38296	RI 3486	45
California:				
Aliso Canyon		39099	RI 4289	9
			RI 5376	10
Antelope Hills		42186	RI 5249	1
Ant Hill		46045	B 490	T. 1
			RI 5249	2

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2/ See also references to samples from the same field in Louisiana and Texas.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference 1/
California: (con.)				
Ant Hill (con.)		46046	RI 5249	3
Arroyo Grande		1170	B 291	11
			RI 2595	P. 50
Arvin. See Mountain View.				
Athens. See Rosecrans.				
Bardsdale		1167	B 291	12
			RI 2595	P. 43
Belgian Anticline		53052	RI 5249	5
Do.		53057	do.	4
			RI 5376	11
Bellevue		46047	RI 5249	6
Belridge, North		1101	B 291	51
			RI 2595	P. 20
Do.		1102	B 291	52
			RI 2608	P. 7
Do.		31044	RI 3362	P. 10
			RI 4289	10
Do.		46048	RI 5249	8
Do.		46049	do.	10
Do.		47037	do.	9
Do.		52033	do.	7
Belridge, South	Belridge	1103	B 291	13
	do.		RI 2608	P. 6
			RI 4289	11
Do.		55146	RI 5376	12
Brea-Olinda	Brea	490	BK 291	14
	do.		RI 2595	P. 32
			RI 4289	12
Do.	Fullerton	2/1136	RI 2595	P. 40
Do.		55177	RI 5376	13
Buena Vista		1115	B 291	15
			RI 2608	P. 8

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Do.		1116	B 291	16
			RI 2595	P. 21
Do.		1117	RI 2608	P. 9
			RI 4289	13
Do.		46050	RI 5249	11
			RI 5376	14
Canal		38048	RI 5249	12
Canfield Ranch (Gosford)		46051	do.	13
Capitan		38076	RI 4289	14
			RI 5249	14
Do.		38077	do.	15
Casmalia		1164	B 291	17
			RI 2595	P. 51
Castaic Hills	Castaic Hills-Sterling Pool	53061	RI 5249	16
			RI 5376	15
Cat Canyon		1162	B 291	18
			TP 346	P. 43
			RI 2595	P. 52
Cat Canyon, West		53054	RI 5249	17
Do.		53055	do.	18
			RI 5376	16
Coalinga, Eastside		458	B 291	19
			RI 2595	P. 18
Do.		459	B 291	20
			RI 2608	P. 2
Do.		1132	B 291	21
			RI 2608	P. 3
Do.		1133	B 291	22
			RI 2608	P. 4
	Coalinga, East		RI 4289	15
Do.	do.	55127	RI 5376	17
Coalinga Nose	do.	38309	RI 5249	19
Do.		55129	RI 5376	18
Coalinga Nose and Northeast		39505	RI 4289	16
			RI 5249	20
Coalinga, Oil City		1134	B 291	23
			RI 2595	P. 19

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3/ Composite sample; includes some production from Richfield field.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference
California: (con.)				
Coalinga, Westside		1131	B 291	24
			RI 2608	P. 5
	Coalinga, West		RI 4289	17
	do.		RI 5376	19
Coles Levee, North (Richfield Western)		39100	RI 5249	22
Do.		43024	do.	21
Coles Levee, North		45043	TP 722	Pp. 10-12
			RI 4289	18
			RI 5249	23
			RI 5376	20
Do.		46069	RI 5249	24
Coles Levee, South		39021	do.	26
Do.		43023	do.	25
Do.		46058	do.	27
Do.		46059	do.	28
			RI 5376	21
Conejo		1171	B 291	25
			RI 2595	P. 44
Coyote, East		43032	RI 4289	19
			RI 5376	22
Coyote, West	Coyote Hills	1143	B 291	26
	do.		RI 2595	P. 33
Do.		43033	RI 4289	20
			RI 5376	23
Cuyama. See Russell Ranch.				
Cymric	McKittrick Front	1104	B 291	46
	do.		RI 2608	P. 23
Cymric (Oceanic)		46052	RI 5249	31
			RI 5376	25
Cymric (Salt Creek)	Salt Creek (Carneros)	46057	B 490	I, T. 4
	do.		RI 5249	47
Cymric (Sheep Springs)		46053	do.	29
	Cymric (McKittrick area)		RI 5376	44

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Do.		46060	RI 5249	30
Del Ray. See Playa del Ray.				
Del Valle		40197	RI 4289	21
			RI 5376	26
Devils Den		24602	RI 2846	P. 24
Do.		24603	do.	P. 25
Dominguez		24492	B 291	27
			RI 2846	P. 12
			RI 4289	22
			RI 5376	27
Ducker Ranch Well No. 2. See Petaluma.				
Edison		35285	RI 3362	P. 6
Do.		35286	do.	P. 7
			RI 4289	23
Do.	Race Track Hill	46056	RI 5249	63
	do.		RI 5376	56
Do.		55149	do.	28
Elk Hills	East Elk Hills	1126	B 291	28
	do.		RI 2608	P. 10
Do.	do.	1127	B 291	29
	do.		RI 2608	P. 11
Do.	do.	1128	B 291	30
	do.		RI 2608	P. 12
Do.	West Elk Hills	1124	B 291	71
	do.		RI 2595	P. 22
Do.	do.	1125	B 291	72
	do.		RI 2595	P. 23
Do.		43025	RI 4289	24
Do.		45011	RI 5249	32
			RI 5376	29
Do.		45025	RI 5249	33
Do.		45090	RI 4054	T. 10B
Do.		45091	do.	T. 10C
Do.		45092	do.	T. 10E
Do.		45093	do.	T. 8D
Do.		45094	do.	T. 10A
Do.		50095	RI 5249	34

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference 1/
California: (con.)				
El Segundo		38049	RI 5249	35
Elwood		30251	RI 3074	P. 7
	Elwood-Goleta		RI 4289	25
	do.		RI 5376	30
Fruitvale		37169	RI 3362	P. 18
			RI 4289	26
Do.		37170	RI 3362	P. 19
Do.		55133	RI 5376	31
Fullerton. See Brea-Olinda.				
Gato Ridge		43171	RI 4289	27
			RI 5249	36
			RI 5376	32
Do.		43172	RI 5249	37
Goleta (Elwood-Goleta) See Elwood.				
Gosford. See Canfield Ranch.				
Greeley		37001	RI 3362	P. 11
Do.		38314	RI 4289	28
			RI 5249	38
Do.		55162	RI 5376	33
Guijarral Hills		49038	RI 5249	40
			RI 5376	34
Do.		50086	RI 5249	39
Half Moon Bay		24316	B 291	31
			RI 2846	P. 26
Helm		42188	RI 4289	29a
Do.		42189	do.	29b
Helm (Lanare area)		46054	RI 5249	41
Hermosa. See Torrance.				

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Honor Rancho		53058	RI 5249	42
			RI 5376	35
Huntington Beach		1137	B 291	32
			RI 2608	P. 47
Do.		23515	do.	P. 48
			RI 2307	P. 15
Do.		23516	B 291	33
			RI 2608	P. 49
Do.		23517	do.	P. 50
Do.		23518	B 291	34
			RI 2608	P. 51
Do.		23526	RI 2595	P. 41
Do.		43026	RI 4289	30
			RI 5376	36
Inglewood	Inglewood District	26326	RI 2846	P. 9
Do.	do.	26327	do.	P. 10
Do.	do.	26329	do.	P. 11
Do.		26554	RI 2893	P. 6
Do.		27685	RI 3074	P. 9
Do.		43029	RI 5249	43
Do.		43031	RI 4289	31
			RI 5376	37
Jacalitos		43175	RI 4289	32
Kern Front	Kern River Front	1130	RI 2608	P. 14
Do.		39445	RI 4289	33
			RI 5376	38
Kern River		461	RI 2608	P. 13
Do.		1129	B 291	35
			RI 2595	P. 24
			RI 4289	34a
Do.		23464	do.	34b
Do.		38L-18	RI 3568	P. 50
Do.		55121	RI 5376	39
Kettleman North Dome	Kettleman Hills	30017	RI 3074	P. 6
Do.	do.	30018	do.	P. 5
Do.		30304	RI 5249	44

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
California: (con.)				
Kettleman North Dome (con.)	Kettleman Hills	30517	TP 554	P. 54
Do.	do.	30518	do.	P. 55
Do.		31040	RI 3362	P. 13
Do.	Kettleman Hills	31041	TP 610	D
			RI 3362	P. 14
Do.		31042	do.	P. 15
Do.		37168	do.	P. 16
			RI 4289	35
			RI 5376	40
Lanare area. See Helm.				
Lompoc		43170	RI 5376	41
Long Beach		1138	RI 2595	P. 34
Do.		23511	RI 2608	P. 31
Do.		23512	B 291	36
			RI 2608	P. 32
Do.		23519	do.	P. 33
Do.		23520	B 291	37
			RI 2608	P. 34
Do.		23521	B 291	38
			RI 2608	P. 35
			RI 4289	36
			RI 5376	42
Los Gatos. See Moody Gulch.				
Lost Hills		1098	B 291	40
			RI 2608	P. 15
Do.		1099	B 291	41
			RI 2595	P. 25
			RI 4289	37a
Do.		1100	RI 2608	P. 16
			RI 4289	37b
Do.		55159	RI 5376	43
Maricopa Flat. See Midway-Sunset.				

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McKittrick		1105	RI 2595	P. 27
Do.		1106	B 291	47
			RI 2608	P. 22
McKittrick Front. See Cymric.				
Mesa		39446	RI 5249	48
Midway-Sunset	Sunset	474	RI 2202	P. 57
	do.		RI 2235	P. 50
	do.		RI 2290 4/	P. 5
	do.		RI 2293	P. 50
	do.		RI 2322	P. 51
	do.		RI 2364	P. 77
	do.		RI 2416	P. 58
	do.		RI 2608	P. 30
Do.	do.	475	RI 2595	P. 31
Do.	Sunset, Midway	476	RI 2608	P. 29
Do.	North Midway Shale area	1107	B 291	53
			B 490	G, T. 4
	North Midway Shale area		RI 2608	P. 27
Do.	do.	1108	RI 2595	P. 30
Do.	do.	1109	B 291	54
	do.		RI 2608	P. 28
Do.	North Midway Fellows area	1110	do.	P. 24
Do.	do.	1111	B 291	55
	do.		RI 2608	P. 25
Do.	do.	1112	RI 2595	P. 29
Do.	do.	1113	B 291	56
	do.		RI 2608	P. 26
Do.	Midway	1114	B 291	48
	do.		RI 2595	P. 28
Do.	Maricopa Flat	1118	RI 2608	P. 17
Do.	do.	1119	B 291	42
	do.		RI 2608	P. 18
Do.	do.	1120	B 291	43
	do.		RI 2595	P. 26
Do.	do.	1121	B 291	44
	do.		RI 2608	P. 19

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4/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202 and RI 2235.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
California: (con.)				
Midway Sunset (con.)	Maricopa Flat (con.)	1122	B 291	45
	do.		RI 2608	P. 20
Do.	do.	1123	do.	P. 21
Do.	Midway (light)	37196	RI 3362	P. 8
	do.		RI 3417	18, T. 19
Do.		45042	TP 722	Pp. 10-12
			RI 4289	38
			RI 5376	45
Do.		53021	RI 5249	49
Montebello		483	B 291	49
			RI 2608	P. 36
Do.		484	do.	P. 37
Do.		487	B 291	50
			RI 2608	P. 38
Do.		1144	RI 2595	P. 35
Do.		43028	RI 5249	50
Do.		43030	RI 4289	39
			RI 5376	46
Moody Gulch	Los Gatos	24317	B 291	39
	do.		RI 2846	P. 27
Mountain View		35287	RI 3362	P. 9
			RI 4289	41
Do.	Mountain View (Arvin)	39237	RI 5249	51
Do.	do.	55130	RI 5376	48
Mount Poso		37226	RI 4289	40
Do.		55150	RI 5376	47
Newhall-Potrero		38078	RI 4289	42
Do.		55155	RI 5376	49
Newport	Newport Beach	23418	RI 2846	P. 22
			RI 4289	43
Newport, West		55145	RI 5376	50

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Oak Canyon		46070	RI 5249	52
Oakridge		53050	do.	53
			RI 5376	51
Ojai		1147	B 291	57
			RI 2595	P. 45
Olinda. See Brea-Olinda.				
Orcutt		44117	RI 5249	54
Do.		55134	RI 5376	52
Oxnard		46067	B 490	C, T. 4
			RI 5249	55
Padre Canyon area. See Rincon.				
Paloma		40198	RI 4289	44
Do.		46068	RI 5249	58
Do.		46071	do.	57
Do.		55123	RI 5376	53
Petaluma	Ducker Ranch Well No. 2	26202	RI 2846	P. 23
Placerita		50085	RI 5249	59
			RI 5376	54
Playa del Rey	Playa del Rey-Venice	30255	RI 3074	P. 8
Do.	Del Rey	31043	RI 3362	P. 17
Pleasant Valley		43169	RI 4289	45
			RI 5249	60
Poso Creek. See Premier.				
Potrero		39470	RI 5249	62
Premier	Poso Creek	40199	do.	61
			RI 5376	55
Race Track Hill. See Edison.				
Raisin City		42187	RI 4289	46
			RI 5376	57
Ramona		53053	RI 5249	64
			RI 5376	58
Richfield		489	B 291	58
			RI 2608	P. 52
			RI 4289	47
Do.		1141	RI 2595	P. 42
			RI 2807	P. 16
Do.		55163	RI 5376	59

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference
California: (con.)				
Richfield Western. See Coles Levee, North				
Rincon		38079	RI 4289	48
Do.	Padre Canyon	39506	RI 5249	56
Do.		55131	RI 5376	60
Rio Bravo		38075	RI 4289	49
			RI 5376	61
Riverdale		42190	RI 4289	50
Do.		42191	RI 5249	65
		26330	RI 2846	P. 13
Rosecrans	Rosecrans-Athens		RI 4289	51
	do.		RI 5376	62
Do.		26331	RI 2846	P. 14
Do.		26332	do.	P. 15
Do.		26333	do.	P. 16
Do.		26334	do.	P. 17
Round Mountain		37227	RI 4289	52
Do.		37228	RI 5249	66
Do.		55152	RI 5376	63
Russell Ranch (Cuyama)		49036	RI 5249	67
			RI 5376	64
Do.		49037	RI 5249	68
Do.		50087	RI 5376	24
Salt Creek (Carneros). See Cymric (Salt Creek).				
Salt Lake		1145	B 291	59
			RI 2595	P. 36
San Ardo		53059	RI 5249	71
			RI 5376	65
Do.		53060	RI 5249	70
San Miguelito		39507	RI 4289	53
Do.		55160	RI 5376	66

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Sansinena		53056	RI 5249	72
			RI 5376	67
Santa Fe Springs		1139	RI 2608	P. 39
Do.		1140	do.	P. 40
Do.		23513	B 291	60
			RI 2608	P. 41
Do.		23514	B 291	61
			RI 2608	P. 42
Do.		23522	do.	P. 43
Do.		23523	do.	P. 44
Do.		23524	RI 2595	P. 37
Do.		23525	RI 2608	P. 45
Do.		30252	RI 3074	P. 10
Do.		30253	do.	P. 11
Do.		30254	do.	P. 12
			RI 4289	54
			RI 5376	68
Santa Maria Valley	Santa Maria	1163	B 291	62
	do.		RI 2595	P. 53
	do.		RI 2807	P. 14
	do.		RI 4289	55
Do.		37015	RI 5249	74
Do.		43027	RI 4289	56
Do.		49008	RI 5249	73
			RI 5376	70
Do.	Santa Maria	55112	do.	69
Santa Paula Canyon	Santa Paula	1169	B 291	63
	do.		RI 2595	P. 46
Sargent		1168	B 291	64
			RI 2595	P. 55
Seal Beach		26328	RI 2846	P. 21
			RI 4289	57
			RI 5376	71
Sheep Springs area. See Cymric (Sheep Springs).				

1/ "G". indicates group, "P". page, "Pp". pages, and "T". table.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference[1]
Field name (other name)	Published name			
California: (con.)				
Shiells Canyon		43173	RI 5249	75
Simi		1172	B 291	65
			RI 2595	P. 47
South Mountain		1166	B 291	66
			RI 2595	P. 48
Do.		53049	RI 5249	76
			RI 5376	72
Strand		39444	RI 5249	77
Do.		39469	do.	78
Summerland		1173	B 291	67
			RI 2595	P. 54
Sunset. See Midway-Sunset.				
Tejon		50084	RI 5249	79
			RI 5376	73
Temescal		43174	RI 5249	80
Ten Section		37002	RI 3362	P. 12
			RI 4289	58
Do.		55151	RI 5376	74
Torrance		1135	B 291	68
			RI 2595	P. 38
	Torrance-Hermosa		RI 4289	59a
Do.		24489	RI 2846	P. 6
Do.		24490	do.	P. 7
			RI 4289	59b
Do.		24491	RI 2846	P. 8
Do.		55126	RI 5376	75
Torrey Canyon		53048	RI 5249	81
Turnbull		42121	do.	82
Venice. See Playa del Ray.				

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Ventura		492	RI 2608	P. 55
Do.		1148	B 291	69
			RI 2603	P. 53
Do.		1149	B 291	70
			RI 2608	P. 54
Do.	Ventura Avenue	26335	RI 2846	P. 18
Do.	do.	26336	do.	P. 19
	do.		RI 4289	60
Do.	do.	26337	RI 2846	P. 20
Do.		30519	TP 554	P. 56
Do.		55128	RI 5376	76
Ventura County 5/		1146	RI 2595	P. 49
			RI 2807	P. 17
Wasco		38326	RI 5249	83
Wheeler Ridge		37229	do.	85
Do.		37230	do.	84
Do.		53051	do.	86
			RI 5376	77
Whittier		486	RI 2806	P. 46
Do.		1142	B 291	73
			RI 2595	P. 39
Wilmington		37166	RI 3362	P. 20
Do.		37167	do.	P. 21
			RI 4289	61
Do.		49005	RI 5249	87
			RI 5376	78
Do.		53020	RI 5249	88
Do.		L 54107	See G 26	T. 2
Colorado:				
Abbott		PC-54-218	RI 5309	P. 15
Adena		PC-54-219	do.	P. 15
Arford (Yenter, Northwest)		PC-51-283	do.	P. 16
Armstrong		PC-50-274	do.	P. 17
			See G15	T. 4
Do.		PC-51-287	RI 5309	P. 16
Atwood		PC-51-310	do.	P. 17

1/ "G". indicates group, "P". page, "Pp". pages, and "T". table.
5/ Composite sample from 150 wells in the county.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Colorado: (con.)				
Badger Creek	Badger Creek, South	PC-54-36	RI 5309	P. 19
Do.		PC-54-37	do.	P. 18
Do.		PC-54-221	do.	P. 18
Badger Creek, West		PC-54-222	do.	P. 19
Berthoud		PC-50-269	do.	P. 20
Big Beaver		PC-54-224	do.	P. 20
Black Hollow		PC-54-35	do.	P. 21
Bobcat		PC-54-225	do.	P. 21
Boulder		PC-55-164	do.	P. 22
Brush, North. See Messer.				
Buckingham		PC-51-282	RI 5309	P. 22
Canon City. See Florence - Canon City.				
Chromo		PC-49-72	RI 5309	P. 23
Clark Lake		PC-50-273	do.	P. 23
Cliff		PC-55-369	do.	P. 24
Dove Creek		PC-49-75	do.	P. 25
Do.		PC-49-76	do.	P. 25
Do.		PC-50-221	do.	P. 24
Dune Ridge		PC-55-373	do.	P. 26
Elk Springs		PC-49-249	do.	P. 26
Florence-Canon City	Florence	579	B 291	74
	do.		RI 2235	P. 40
	do.		RI 2290[6]	P. 5
Do.	Canyon City	40L-2	See G4	P. 81
Do.	Florence	40L-3	do.	P. 81
Do.		PC-50-220	RI 5309	P. 27

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Fort Collins		40L-4	See G4	P. 82
Do.		40L-5	do.	P. 82
Do.		PC-50-265	RI 5309	P. 27
Fort Morgen area (Wildcat). See (No Name).				
Gary		PC-54-227	RI 5309	P. 28
Goodrich		PC-52-80	do.	P. 28
Gramps (Price)		PC-54-38	do.	P. 29
Do.		PC-54-79	do.	P. 29
Graylin		PC-51-281	do.	P. 30
Greasewood	Greasewood Flat	31310	RI 3174	P. 2
Do.	do.	31311	do.	P. 3
	do.		See G4	P. 83
Do.		PC-50-267	RI 5309	P. 30
Do.		PC-52-177	do.	P. 31
Grover. See Keota.				
Gunnison Core Hole		44L-26	RI 5309	P. 31
Hamilton Dome. See Moffat.				
Hartsel		36L-5	RI 5309	P. 32
			See G4	P. 83
Hiawatha		36L-3	B 418	P. 142
			RI 3358	P. 14
			See G4	P. 84
Do.		PC-49-251	RI 5309	P. 32
Iles		39L-12	See G4	P. 85
Do.		39L-14	do.	P. 84
Do.		39L-15	do.	P. 85
Do.	Iles Dome	PC-49-250	RI 5309	P. 33
Do.	do.	PC-49-255	do.	P. 33
Keota (Grover)		PC-51-309	do.	P. 34
Lee		PC-51-280	do.	P. 34
Do.		PC-52-84	do.	P. 35

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.
6/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2235.

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Table 3.—Finding list for crude-oil analyses - Continued

State and field: Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Colorado: (con.)				
Little Beaver	Little Beaver Creek	PC-52-174	RI 5309	P. 36
			RI 5376	79
Do.		PC-54-228	RI 5309	P. 35
Little Beaver, East		PC-55-295	do.	P. 36
Logan		PC-51-288	do.	P. 37
Luft		PC-52-179	do.	P. 37
Maudlin Gulch		PC-49-243	do.	P. 38
Do.		PC-49-244	do.	P. 38
McCallum, North		36L-2	See G4	P. 86
Do.		PC-49-242	RI 5309	P. 39
McCallum, South		36L-1	See G4	P. 86
			RI 5309	P. 39
McRae		PC-54-229	do.	P. 40
Merino		PC-51-286	do.	P. 40
Messer	Messer or North Brush	PC-52-178	do.	P. 41
Messex		PC-51-289	do.	P. 41
Middlemist		PC-52-175	do.	P. 42
Minto, North		PC-55-368	do.	P. 42
Minto, West		PC-55-372	do.	P. 43
Moffat	Hamilton Dome	23435	B 291	75
Do.		39L-8	See G4	P. 87
Do.		39L-9	do.	P. 87
Do.		PC-49-256	RI 5309	P. 43
Do.		PC-49-258	do.	P. 44
Do.		PC-49-259	do.	P. 44
Do.	Moffat Dome	PC-54-39	do.	P. 45

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Mount Hope	Mt. Hope	PC-51-285	do.	P. 45
	do.		RI 5376	80
Mountain View, East		PC-54-226	RI 5309	P. 46
Noonen Ranch	Noonen	PC-52-79	do.	P. 46
Oak Creek		PC-49-253	do.	P. 47
Padroni, West		PC-52-180	do.	P. 47
Pawnee Creek		PC-52-76	do.	P. 48
Peetz, West		PC-52-181	do.	P. 49
Do.		PC-55-59	do.	P. 48
Plum Bush Creek		PC-55-444	do.	P. 49
Powder Wash		36L-18	RI 3358	P. 20
			See G4	P. 88
Do.		PC-49-247	RI 5309	P. 50
Do.		PC-49-248	do.	P. 50
Price. See Gramps.				
Rago		PC-54-230	RI 5309	P. 51
Rangely		600	RI 2235	P. 41
			RI 2290 6/	P. 5
Do.		23437	B 291	76
			See G4	P. 88
Do.		45L-57	RI 4761	P. 64
Do.		45L-58	do.	P. 62
Do.		45L-60	do.	P. 68
Do.		45L-61	RI 4517	T. 2
Do.		7/ 45L-61	See F6	P. 3
Do.		45L-83	RI 4761	P. 63
Do.		45L-84	do.	P. 67
Do.		46028	RI 4517	T. 2
Do.		46029	RI 4289	62
			RI 4517	T. 1
			RI 5376	81

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.
6/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2235.
7/ A different analysis, of the same crude-oil sample, from that in RI 4517.

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Table 3.--Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference[1]
Field name (other name)	Published name			
Colorado: (con.)				
Rangely		PC-46-6	RI 4761	P. 65
Do.		PC-46-9	do.	P. 63
Do.		PC-46-10	do.	P. 61
Do.		46L-765	do.	P. 60
Do.		46L-766	RI 4517	T. 1
			RI 4761	P. 68
Do.		PC-47-32	do.	P. 67
Do.		PC-47-33	do.	P. 60
Do.		PC-47-34	do.	P. 65
Do.		PC-47-35	do.	P. 64
Do.		PC-47-36	do.	P. 66
Do.		PC-47-37	do.	P. 66
			RI 5309	P. 52
Do.		PC-48-10	RI 4761	P. 61
Do.		PC-48-11	do.	P. 62
Do.		PC-49-245	RI 5309	P. 52
Do.		PC-54-111	do.	P. 51
Sand Creek, See Willard.				
Sand River		PC-54-231	RI 5309	P. 53
Springdale		PC-51-308	do.	P. 54
Do.		PC-52-78	do.	P. 53
Springdale, South		PC-52-77	do.	P. 54
Tow Creek		39L-10	See G4	P. 89
Do.		39L-11	do.	P. 89
Do.		PC-49-252	RI 5309	P. 55
Walker		PC-51-290	do.	P. 55
Wellington		PC-50-266	do.	P. 56
White River		PC-54-109	do.	P. 56
Willard (Sand Creek)		PC-52-75	do	P. 57

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Wilson Creek		39L-13	See G4	P. 90
Do.		42003	RI 4239	63
Do.		PC-49-254	RI 5309	P. 53
Do.		PC-49-257	do.	P. 58
			RI 5376	82
Woodrow, East		PC-54-232	RI 5309	P. 59
Woodrow, South		PC-55-299	do.	P. 59
Xenia, West		PC-55-419	do.	P. 60
Yenter		PC-51-284	do.	P. 60
			RI 5376	83
			See G15	T. 3
Yenter, Northwest. See Arford.				
(No name)3/	Wildcat (Ft. Morgan area)	PC-50-275	RI 5309	P. 57
Florida:				
Sunniland		43167	RI 4687	2
Illinois:				
Aden Consolidated	North Aden	39491	RI 3532	34
Albion Consolidated	Albion	54035	RI 5376	84
Barnhill		39489	RI 3532	1
Benton		45020	RI 5376	85
Bible Grove. See Sailor Springs Consolidated.				
Boyd		46126	RI 4289	65
Boyleston. See Clay City Consolidated.				
Bridgeport. See Lawrence.				
Casey		26552	RI 3532	3
Centralia		38452	do.	5
Do.		39484	do.	4
			RI 4289	66a
Do.		45018	do.	66b
Cisne. See Clay City Consolidated.				

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.
3/ Unimportant or abandoned according to list and map in RI 5309.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Illinois: (con.)				
Clay City Consolidated	Clay City	37239	RI 3532	8
	do.		RI 3792	T. 3
			RI 4289	67
			RI 5376	87
Do.	Noble	37245	RI 3532	33
Do.	Cisne	38451	do.	6
Do.	Noble	39494	do.	32
Do.	Cisne	39499	do.	7
Do.	Boyleston	39500	do.	2
Colmar-Plymouth		35135	do.	9
Do.	Plymouth	43164	RI 3783	T. 18
Do.	Colmar	43166	do.	T. 24
Cordes		39492	RI 3532	10
Cravat		39493	do.	11
Crawford County[9]		396	B 291	77
			RI 2202	P. 53
			RI 2235	P. 47
			RI 2290[10]	P. 4
			RI 2293	P. 45
			RI 2322	P. 44
			RI 2364	P. 70
			RI 2416	P. 59
Dale Consolidated	Dale-Hoodville	41257	RI 4289	68
			RI 5376	88
Dix. See Salem Consolidated				
Flora		39487	RI 3532	13
Gillespie-Wyen		26553	do.	14
Grayville. See Phillipstown Consolidated.				
Griffin. See New Harmony Consolidated.				
Hoodville. See Dale Consolidated.				
Johnsonville Consolidated		45017	RI 4289	69
Junction		39472	RI 3532	19
Keensburg. See New Harmony Consolidated.				

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Lawrence	Bridgeport	26550	RI 5376	86
Do.	Lawrence County	29642	RI 3532	23
Do.	do.	29644	do.	21
Do.	do.	29646	do.	22
Do.	do.	29649	do.	24
Louden		38454	do.	26
Do.		39481	do.	27
Do.		39482	do.	25
Do.		45036	TP 772	Pp. 10-12
			RI 4289	70
			RI 5376	89
			See G6	P. 95
Main Consolidated	Robinson	43162	RI 3783	T. 12
	do.		RI 5376	92
Do.	do.	43163	See G9	72
Do.	do.	43165	RI 3783	T. 6
Mill Shoals		39478	RI 3532	29
Do.		39479	do.	28
Mt. Carmel		39477	do.	30
Do.		42099	RI 4289	71
New Harmony Consolidated	Griffin	39473	RI 3532	18
Do.	do.	39474	do.	17
Do.	do.	39475	do.	16
Do.	Keensburg	39476	do.	20
Do.	New Harmony	39502	do.	31
			RI 4289	72
			RI 5376	90
Do.	New Harmony	11/ 0-250	RI 3818	T. 6
Noble. See Clay City Consolidated.				
Olney Consolidated	Olney	39488	RI 3532	35
Patoka		37238	do.	36
			RI 4289	73
Phillipstown Consolidated	Grayville	39501	RI 3532	15
Do.	Phillipstown	46127	RI 5376	91

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.
9/ Composite sample from production in Crawford, Cumberland, Jasper, and Lawrence Counties.
10/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202 and RI 2235.
11/ Analysis by Illinois State Geological Survey.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Illinois: (con.)				
Plymouth. See Colmar-Plymouth.				
Robinson. See Main Consolidated.				
Sailor Springs Consolidated.	Bible Grove	42060	RI 4289	64
Salem Consolidated	Salem (Lake Centralia)	38453	RI 3532	38
Do.	do.	39495	do.	39
Do.	do.	39496	do.	40
Do.	Dix	39498	do.	12
Do.	Salem	45024	RI 4289	71
	do.		RI 5376	93
Sandoval		39485	RI 3532	41
St. James		39483	do.	37
Tonti		39486	do.	42
Wyen. See Gillespie-Wyen.				
Indiana:				
Griffin Consolidated	Griffin	42224	RI 4289	75
	do.		RI 5376	94
Do.	do.	42228	See G9	74
Lima District		392	B 291	78
			RI 2202	P. 52
			RI 2235	P. 46
			RI 2290[10]	P. 5
			RI 2293	P. 44
			RI 2322	P. 43
			RI 2364	P. 69
			RI 2416	P. 60
Kansas:				
Abbyville		35076	RI 3688	1

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Agard. See Thrall-Agard.				
Albert. See Otis-Albert.				
Altoona		595	B291	79
			RI 2322	P. 25
Augusta		586	B291	80
			RI 2202	P. 54
			RI 2235	P. 48
			RI 2290 10/	P. 4
			RI 2293	P. 46
			RI 2322	P. 17
			RI 2364	P. 71
			RI 2416	P. 61
Do.		40221	RI 3688	4
Do.		40224	do.	5
Barrett (Woodson). See Quincy.				
Batesville		41061	RI 3688	6
Bemis-Shutts	Shutts	35290	do.	140
Do.	do.	35291	do.	139
Do.	Bemis	41343	do.	8
			RI 4289	76
			RI 5376	95
Big Creek (Neidenthal). See Gorham.				
Big Sandy		56104	IC 7873	6
Do.		57087	do.	6a
Blankenship	Cattleman	592	B 291	81
	do.		RI 2322	P. 21
Bloomer	Breford	35002	RI 3688	14
Do.	do.	35003	do.	15
Do.	Stumps	36006	do.	153
Do.		41356	do.	9
			RI 4289	77
			RI 5376	96
Do.		41357	RI 3688	10

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.
10/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202 and RI 2235.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Kansas: (con.)				
Bolton. See Jefferson-Sycamore.				
Bornholdt. See Welch-Bornholdt.				
Brandenstein. See Chase-Silica.				
Breford. See Bloomer.				
Browning		41007	RI 3688	16
Burden		35142	do.	18
Do.		35143	do.	17
Burkett		41067	do.	19
Burnett		41341	do.	20
			RI 4289	79
			RI 5376	97
Do.		41342	RI 3688	21
Burrton		35091	do.	23
Do.		36180	do.	22
			RI 4289	80a
Do.		37109	RI 3417	19, T.19
			RI 4289	80b
Bush. See Fox-Bush.				
Bush City Shoestring		38062	RI 3688	24
Cadmus. See LaCygne-Cadmus.				
Caldwell		41059	RI 3688	25
Canton. See Ritz-Canton.				
Carmi. See Iuka-Carmi.				
Carson. See Slick-Carson.				
Cattleman. See Blankenship.				
Chanute. See Humboldt-Chanute.				
Chase-Silica	Chase (Beyers)	35001	RI 3688	27
Do.	Silica, South	35005	do.	143
Do.	Chase	35009	do.	28

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Do.	Brandenstein	35069	do.	13
Do.	Ploog	35070	do.	111
Do.	Chase	35079	do.	26
	do.		RI 4289	81
			RI 5376	98
Do.	Keesling	36005	RI 3688	88
Do.	Silica	41370	do.	142
Do.	do.	41371	do.	141
	do.		RI 4289	89
Chetopa		39389	RI 3688	32
Cheyenne View	Hammer, North	50042	See G 13	T. 3
Clark		35139	RI 3688	33
Clemmer. See Jefferson-Sycamore.				
Coleman	Lamb	39392	RI 3688	93
Couch	Daniels	41024	do.	38
Do.		41039	do.	35
Cross		35126	do.	36
Cunningham		35075	do.	37
Daniels. See Couch.				
Davis Ranch		50075	See G 13	T. 2
DeMalorie-Souder		41064	RI 3688	39
Douglass		35150	do.	40
Eastman		35144	do.	41
Do.		41026	do.	42
Edna		39390	do.	43
Do.		56101	IC 7873	5
Do.		57097	do.	5a
Edwards. See Geneseo-Edwards.				
Elbing		589	B 291	83
			RI 2322	P. 20
Do.		35256	RI 3688	44

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference 1/
Field name (other name)	Published name			
Kansas: (con.)				
El Dorado		587	B 291	84
			RI 2322	P. 18
Do.		39401	RI 3688	49
Do.		40201	RI 4289	82
			RI 5376	100
Do.		40204	RI 3688	50
Do.		40208	do.	48
Do.		40210	do.	47
Do.		40212	do.	46
Do.		40214	do.	45
Elrod		585	B 291	85
			RI 2322	P. 16
Elsmore and Moran		606	B 291	86
	Moran and Elsmore		RI 2322	P. 35
Erie		609	B 291	87
			RI 2322	P. 38
Fairport	Fairport, South (Austin)	35292	RI 3688	52
Do.		36010	do.	51
Fankhouser		41019	do.	53
Florence and Peabody		590	B 291	88
			RI 2322	P. 24
Fox-Bush		35206	RI 3688	54
Garnett Shoestring		35121	do.	56
Do.		38060	do.	55
Do.		43132	RI 3761	T. 13
Gates		35071	RI 3688	57
Gelwick		35269	do.	58
Geneseo-Edwards	Geneseo	35073	do.	59
Do.	do.	41361	do.	60
	do.		RI 4289	83
			RI 5376	101

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Do.	Geneseo	41362	RI 3688	61
Do.		47024	RI 5376	99
Goodrich		35124	RI 3688	63
Do.		35125	do.	62
Gorham		36008	do.	65
			RI 4289	84
			RI 5376	102
Do.		36012	RI 3688	66
Do.	Neidenthal	36016	do.	100
Do.	Sullivan	36021	do.	64
Graber		35082	do.	67
Graham		35132	do.	68
Do.		35134	do.	69
Guldner		36004	do.	70
Hall-Gurney		41345	RI 4289	85
			RI 5376	103
Do.		41346	RI 3688	76
Do.		41347	do.	71
Do.		41348	do.	74
Do.		41349	do.	75
Do.		41350	do.	73
Do.		41351	do.	72
Hamilton		41045	do.	77
Hammer, North. See Cheyenne View.				
Havana. See Wayside-Havana.				
Haverhill		35209	RI 3688	79
Do.		41184	do.	78
Hazlett		35254	do.	80
Heiken		35007	do.	81
Hepler		54017	IC 7873	2
Do.		56105	do.	2a
Do.		57077	do.	2b
Hewins	_____ field	35278	RI 3688	30
Hittle		35127	do.	82
Hollow-Nikkel		35085	do.	84
Do.		35086	do.	83
Do.		35087	do.	85

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TABLE 3.--Fiding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Kansas: (con.)				
Humboldt-Chanute	Chanute	608	B 291	82
	do.		RI 2322	P. 37
Do.	do.	43135	RI 3761	T. 11
Do.		56100	IC 7873	4
Do.		57086	do.	4a
Independence. See Jefferson-Sycamore.				
Iola		605	B 291	90
			RI 2322	P. 34
Do.		39133	RI 3688	86
Iuka-Carmi		54101	RI 5376	104
Jefferson-Sycamore	Independence	598	B 291	89
			RI 2322	P. 28
Do.	Bolton	37237	RI 3688	11
Do.	Clemmer	39391	do.	34
Johnson. See Virgil.				
Keesling. See Chase-Silica.				
Keighley		35215	RI 3688	89
Do.		41014	do.	90
Kincaid		38063	do.	91
Kraft-Prusa		46118	RI 4289	86
			RI 5376	105
Kramer-Stern	Kramer	35216	RI 3688	92
LaCygne-Cadmus		56106	IC 7873	1
Do.		57078	do.	1a
Lamb. See Coleman.				
Lamont		41016	RI 3688	94
Do.	Norton	41048	do.	101
Leon		35208	do.	95
Lerado	(no name)	36059	RI 3474	T. 6
			RI 3688	96
LeRoy. See Neosho Falls-LeRoy.				
Logan pool (Phillips County). See Ray.				

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Madison		41041	RI 3688	97
Marcotte		44042	RI 5376	106
McCune		38319	RI 3573	T. 2
Do.		39008	RI 3688	98
Do.		43136	RI 3761	T. 10
McLouth		41205	RI 3688	99
McSweeney. See Snowden-McSweeney.				
Moran. See Elsmore and Moran.				
Morel		46119	RI 4289	87
			RI 5376	107
Neidenthal. See Gorham				
Neodesha		597	B 291	91
			RI 2322	P. 26
Neosho Falls-LeRoy	Neosho Falls	56109	IC 7873	3
Do.	do.	57079	do.	3a
New Albany		596	B 291	92
			RI 2322	P. 27
Nikkel. See Hollow-Nikkel.				
Norton (Greenwood County). See Lamont.				
Ochs. See Trapp.				
Orth		35066	RI 3688	104
Do.		41367	do.	103
Osawatomie. See Paola-Rantoul.				
Otis-Albert	Otis	35074	RI 3688	105
Do.	Albert	37035	do.	3
Oxford		35272	do.	106
Do.		41054	do.	107
Padgett		41049	do.	108
Paola-Rantoul	Rantoul	602	B 291	98
	do.		RI 2322	P. 31
Do.	Osawatomie	603	B 291	93
	do.		RI 2322	P. 32
Do.	Rantoul	43133	RI 3761	T. 14
Peabody. See Florence and Peabody.				

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Kansas: (con.)				
Peabody		35305	RI 3688	109
Peace Creek. See Zenith-Peace Creek.				
Peacock. See Winfield.				
Peru-Sedan		581	B 291	95
			RI 2322	P. 12
Do.		582	B 291	96
			RI 2322	P. 15
Do.		583	do.	P. 14
Do.	____ field	35058	RI 3688	29
Do.	do.	35265	do.	31
Pierce		35255	do.	110
Ploog. See Chase-Silica.				
Polhamus		41012	RI 3688	112
Potwin		588	B 291	97
			RI 2322	P. 19
Do.		35253	RI 3688	113
Prusa. See Kraft-Prusa.				
Quincy		41040	RI 3688	114
Do.	Barrett	41055	do.	7
Rainbow Bend		35131	do.	115
Rantoul. See Paola-Rantoul.				
Ray	Logan pool	40132	See F 4	P. 2
Do.		41344	RI 3688	116
			RI 4289	88
			RI 5376	108
Raymond		35008	RI 3688	118
Do.		40161	do.	117
Do.		40163	do.	120
Do.		40164	do.	119

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Reynolds-Schaffer		35210	do.	121
Do.		35211	do.	122
Richardson		35072	do.	123
Ritz-Canton		34075	RI 3297	T. 6
			RI 3688	125
Do.		35010	RI 3297	T. 5
			RI 3688	124
Rock		35141	do.	126
Do.		41043	do.	127
Rosalia. See Young.				
Russell		36009	RI 3688	130
Do.		36013	do.	131
Sallyards		593	B 291	99
			RI 2322	P. 22
Do.		41013	RI 3688	132
Schaffer. See Reynolds-Schaffer.				
Scott		41005	RI 3688	133
Sedan. See Peru-Sedan.				
Seeley-Wick	Seeley	41008	RI 3688	134
Do.	Wick	41018	do.	165
Do.	Seeley	43131	RI 3761	T. 12
			RI 5376	109
Sellens. See Trapp.				
Seward		41071	RI 3688	137
Shaffer. See Smith.				
Shutts. See Bemis-Shutts.				
Silica. See Chase-Silica.				
Slick-Carson		35128	RI 3688	144
Do.		35129	do.	146
Do.		35130	do.	145
Smith	Shaffer	35140	do.	138
Smock-Sluss		35207	do.	147
Do.		41185	do.	148

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference[1/]
Field name (other name)	Published name			
Kansas: (con.)				
Snowden-McSweeney		35218	RI 3688	149
Souder. See DeMalorie-Souder.				
Steinhoff		35212	RI 3688	150
Stern. See Kramer-Stern.				
Stoltenberg		35067	RI 3688	151
Do.		41363	RI 4289	90
			RI 5376	110
Do.		41366	RI 3688	152
Stumps. See Bloomer.				
Sycamore. See Jefferson-Sycamore.				
Teeter		594	B 291	100
			RI 2322	P. 23
Do.		41006	RI 3688	154
Thrall-Agard	Agard	41011	do.	2
			RI 5376	111
Do.	Thrall	41068	RI 3688	155
Trapp	Sellens	36014	do.	136
Do.	do.	36015	do.	135
Do.	Ochs	36017	do.	102
Do.		41354	do.	156
Do.		41355	do.	159
Do.		41364	do.	157
Do.		41365	do.	158
			RI 4289	91
			RI 5376	112
Tyro		601	B 291	101
			RI 2322	P. 30
Udall		35217	RI 3688	160
Urbana		607	B 291	102
			RI 2322	P. 36

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Valley Center		35092	RI 3688	161
Do.		35093	do.	162
Virgil	Johnson	41053	do.	87
Wayside-Havana	Wayside	599	B 291	103
	do.		RI 2322	P. 29
Do.	Havana-Wayside	43138	RI 3761	T. 9
Weaver	Yates	35213	RI 3688	172
Welch-Bornholdt	Welch	35077	do.	163
Do.	Bornholdt	41368	do.	12
	do.		RI 4289	78
Do.		54025	RI 5376	113
Western Kansas		12/ 37108	RI 3417	8, T. 19
Wherry		35078	RI 3688	164
Wick. See Seeley-Wick.				
Wiggins		41023	RI 3688	166
Winfield	Peacock	584	B 291	94
	do.		RI 2322	P. 15
Do.		35145	RI 3688	167
Do.		35146	do.	169
Do.		35147	do.	171
Do.		35148	do.	168
Do.		35149	do.	170
Yates. See Weaver.				
Yates Center		604	B 291	104
			RI 2322	P. 33
Young	Rosalia	35214	RI 3688	128
Do.	do.	35219	do.	129
Zenith-Peace Creek		13/ 41359	do.	173
Do.		41360	do.	174
Do.		46120	RI 4289	92

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.
12/ "Mixed Western Kansas" in table of "Pipeline-run" crude-oil analyses.
13/ Sample number is by error 43159 in RI 3688.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Kentucky:				
Allen County		23382	RI 4687	4
Do.		23383	do.	3
Barren County		23380	do.	6
Do.		23381	do.	5
Big Sinking		399	B 291	105
			RI 2202	P. 45
			RI 2290[14/]	P. 4
Birk City		47013	RI 4687	7
Campton		400	B 291	106
			RI 2202	P. 46
			RI 2235	P. 45
			RI 2293	P. 43
			RI 2322	P. 42
			RI 2364	P. 68
			RI 2416	P. 62
Cleopatra		43148	RI 4687	8
Cow Creek		398	B 291	107
			RI 2202	P. 44
Eastern Kentucky	(15/)	411	do.	P. 51
			RI 2290[14/]	P. 4
Hart County		33145	RI 4687	10
Do.		33146	do.	9
Hitesville Consolidated		47010	do.	11
Do.		47011	do.	13
Do.		47012	do.	12
Johnson County	Martha[16/]	35064	RI 3325	P. 11
			RI 4687	14

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Lawrence County		409	B 291	108
			RI 2202	P. 50
			RI 2290[14]	P. 4
Do.		23378	RI 4687	16
Do.	Martha[16]	35061	RI 3325	P. 12
			RI 4687	15
Do.	Martha[16]	35062	RI 3325	P. 10
Do.	do.[16]	35063	do.	P. 13
Magoffin County		23412	RI 4687	17
Martha. See Johnson County and Lawrence County.				
Ohio County		33147	RI 4687	18
Olympia		408	B 291	109
			RI 2202	P. 49
			RI 2290[14]	P. 4
Poole Consolidated		47001	RI 4289	93
			RI 4687	19
			RI 5376	114
Do.		47002	RI 4687	20
Ragland		407	B 291	110
			RI 2202	P. 48
Ross Creek		397	B 291	111
			RI 2202	P. 43
Simpson County		23384	RI 4687	22
Do.		23385	do.	21
Smith Mills Consolidated		47003	RI 4289	94
Do.		47014	RI 4687	23
Do.		47015	do.	24
Somerset		767	B 291	112
Uniontown		47004	RI 4289	95
Do.		47006	RI 4687	26
Do.		47007	do.	25
Warren County		23386	do.	28
Do.		23387	do.	27
Wayne County		406	B 291	113
			RI 2202	P. 47

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14/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202.
15/ "Composite from several counties obtained at Tug River."
16/ This analysis is indicated in the text of RI 3325 as of a sample of crude oil from a well in an area known as the Martha field.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Louisiana:				
Anse la Butte		787	B 291	114
			RI 2416	P. 23
Do.		944	do.	P. 24
Do.		35114	RI 3476	48
Do.		35116	do.	49
			RI 4289	96a
Do.		42120	RI 4034	1
			RI 4289	96b
			RI 5376	115
Avery Island		50009	do.	116
Bancroft		42199	RI 4034	2
			RI 5376	117
Barataria		42139	RI 4034	3
			RI 4289	97
			RI 5376	118
Barataria, West		54024	do.	119
Bastian Bay		42148	RI 4034	4
Bateman Lake		54076	RI 5376	120
Bay de Chene		54070	do.	121
Bay Marchand		50092	do.	122
Bay St. Elaine		42122	RI 4034	11
			RI 5376	123
Do.		42123	RI 4034	9
Do.		42125	do.	10
Bayou Bleu	Bayou Blue	54057	RI 5376	124
Bayou Couba		42222	RI 4034	5
Bayou des Allemands		42126	do.	6
Do.		54060	RI 5376	125
Bayou Mallet		37199	RI 3476	50
			RI 5376	126

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Bayou Sale		42133	RI 4034	7
			RI 4289	98
Do.		42134	RI 4034	8
Do.		53064	RI 5376	127
Bear		43120	RI 4034	12
Bellevue		35106	RI 3476	1
Big Creek. See Delhi-Big Creek.				
Big Lake		44005	RI 4034	13
Black Bayou		41477	do.	14
Blue Lake	Zwolle	30601	RI 3476	45
Do.	do.	30603	do.	46
Bosco		35118	do.	51
Do.		35119	do.	52
Do.		37201	do.	53
			RI 4289	99
Do.		54059	RI 5376	128
Bull Bayou	Bull Bayou, DeSoto, and Red River	712	B 291	115
	do.		RI 2293	P. 33
Do.	DeSoto-Red River	35109	RI 3476	15
Do.	do.	35113	do.	16
Bully Camp		54049	RI 5376	129
Caddo		714	B 291	116
			RI 2293	P. 35
Do.		715	B 291	117
			RI 2293	P. 36
			RI 2322	P. 47
			RI 2364	P. 73
			RI 2416	P. 63
Do.	Pine Island	718	B 291	123
	do.		RI 2293	P. 37
Do.	do.	35094	RI 3476	26
Do.	do.	35095	do.	28
Do.	Hosston	35097	do.	24
Do.	Pine Island	35099	do.	27
	Caddo District (light)		RI 4289	100

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[17]
Louisiana: (con.)				
Caddo (con.)	Caddo District	35100	RI 3476	2
Do.	do.	40145	RI 4034	15
Do.	Caddo-Pine Island	53032	RI 5376	130
Caillou Island		37220	RI 3476	54
			RI 4289	101
Do.		53046	RI 5376	131
Cameron Meadows		42196	RI 4034	16
Carterville, North		43002	do.	17
Carterville-Sarepta	Sarepta	35105	RI 3476	32
Do.	Carterville	35107	do.	3
Do.	do.	35108	do.	4
Charenton		37225	do.	55
			RI 4289	102
			RI 5376	132
Do.		42219	RI 4034	18
Do.		42220	do.	19
Cheneyville		37202	RI 3476	56
Converse		34009	do.	7
Do.		34012	do.	6
Do.		34015	do.	5
Cote Blanche Bay, West		42135	RI 4034	79
			RI 4289	134
			RI 5376	194
Cotton Valley		24466	B 291	118
Do.		281003	TP 504	T. 14
			RI 3476	9
Do.		281006	RI 3279	C, T. 1
Do.		281007	TP 504	T.13
			RI 3476	8

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Do.		38141	do.	13
			RI 4289	103a
Do.		38188	TP 610	I
Do.		39080	RI 3476	10
Do.		39081	do.	11
Do.		39082	do.	12
Do.		39084	do.	14
Do.		46039	B 490	A, T. 4
			RI 4289	103b
			RI 5376	133
Cox Bay		53038	do.	134
Creole		40310	RI 4034	20
Crowley, North		50010	RI 5376	135
Darrow		33039	RI 3253	P. 11
Do.		37214	RI 3476	57
Delhi-Big Creek		53043	RI 5376	136
Delta Duck Club		54071	do.	137
Delta Farms		42092	RI 4034	21
			RI 4289	104
Do.		53035	RI 5376	138
DeSoto-Red River. See Bull Bayou.				
Dixie		35098	RI 3476	17
Dog Lake		37219	do.	58
			RI 5376	139
Duck Lake		53044	do.	140
Edgerly		757	B 291	119
			RI 2416	P. 21
Egan		50024	RI 5376	141
Elm Grove		713	B 291	120
			RI 2223	P. 34
Do.		35112	RI 3476	18
Elton, South		42218	RI 4034	22
Eola		39111	RI 3476	59
			RI 4289	105
Erath		42127	RI 4034	23
			RI 4289	106
Do.		53063	RI 5376	142
Eugene Island Block 126		54071	do.	143
Fields		44004	RI 4034	24

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Louisiana: (con.)				
Fordoche		54082	RI 5376	144
Four Isle Bay	Four Isle	37222	RI 3476	60
Garden Island Bay		37221	do.	61
			RI 4289	107
			RI 5376	145
Georgetown. See Tullos-Urania.				
Gibson and Gibson, Northeast		42124	RI 4034	26
			RI 4289	108
			RI 5376	146
Golden Meadow		41299	RI 4034	27
			RI 4289	109
Do.		53045	RI 5376	147
Good Hope		53040	do.	148
Grand Bay		42113	RI 4034	28
			RI 4289	110
Do.		53039	RI 5376	149
Grand Lake		40273	RI 4034	29
Gueydan		33034	RI 3253	P. 12
			RI 4289	111
			RI 5376	150
Hackberry, East		40271	RI 4034	30
			RI 4289	112
Hackberry, West		50015	RI 5376	151
Harang. See Valentine.				
Hayes		42192	RI 4034	31
Haynesville			See D4	P. 10
Do.		35103	RI 3476	20
			RI 4289	113

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Do.		35104	RI 3476	19
Do.		53031	RI 5376	152
Haynesville, East		53033	do.	153
Hemphill. See Nebo-Hemphill.				
Hico-Knowles	Knowles	54031	RI 5376	159
Holly		35111	RI 3476	21
Holly Ridge		43147	RI 4289	114
Do.		43197	RI 4034	32
Homer		711	B 291	121
			RI 2293	P. 32
Do.		35101	RI 3476	22
Do.		35102	do.	23
Horshoe Bayou		43078	RI 4034	33
			RI 5376	154
Hosston. See Caddo.				
Iberia	New Iberia	35117	RI 3476	66
			RI 4289	115
			RI 5376	155
Iowa		33030	RI 3253	P. 13
Do.		37200	RI 3476	63
			RI 4289	116
			RI 5376	156
Jeanerette		42132	RI 4034	34
Do.	Jeanerette, North	43117	do.	35
Do.		54102	RI 5376	157
Jefferson Island		42136	RI 4034	36
Jennings		758	B 291	122
			RI 2416	P. 19
Do.		945	do.	P. 20
Do.		30390	RI 3253	P. 14
			RI 4289	117
			RI 5376	158
Do.		30392	RI 3253	P. 15

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Louisiana: (con.)				
Joaquin. See Logansport.				
Knowles. See Hico-Knowles.				
Lafitte		37218	RI 3476	64
			RI 4289	118
Do.		53037	RI 5376	160
Lake Arthur		42194	RI 4034	37
Lake Barre		33035	RI 3253	P. 16
Do.		33036	do.	P. 17
Lake Chicot		54062	RI 5376	161
Lake Decade		42150	RI 4034	38
Lake Long		42131	do.	39
Lake Mongoulois		54086	RI 5376	162
Lake Pelto		33038	RI 3253	P. 18
			RI 5376	163
Lake Salvador		42109	RI 4034	43
			RI 4289	115
			RI 5376	164
Lake St. John		42184	RI 4034	42
Do.		42185	do.	41
Do.		43046	do.	40
			RI 4289	120
Do.		53042	RI 5376	165
Lake Verret, West		42128	RI 4034	44
			RI 4289	121
			RI 5376	166
La Pice		54044	do.	167
Leeville		33037	RI 3253	P. 19
			RI 5376	168
Lirette		37018	RI 3476	65

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Lisbon		39083	do.	25
Do.		41445	RI 4034	45
			RI 5376	169
Little Creek. See Zenoria-Little Creek.				
Lockport		33023	RI 3253	P. 26
Do.		33024	do.	P. 21
Do.		33025	do.	P. 25
Do.		33026	do.	P. 20
Do.		33027	do.	P. 24
Do.		33028	do.	P. 22
Do.		33029	do.	P. 23
Do.		40272	RI 4034	49
Do.		43009	do.	50
Logansport	Logansport-Joaquin	42012	do.	51
Main Pass		50093	RI 5376	170
Mermentau, West		42195	RI 4034	52
Napoleonville		43060	do.	53
Neale		40311	RI 4289	122a
Do.		42193	RI 4034	55
			RI 4289	122b
Do.		42197	RI 4034	54
Nebo-Hemphill		42089	do.	56
			RI 4289	123
			RI 5376	171
Do.		42091	RI 4034	57
New Iberia. See Iberia.				
Olla		40147	RI 4034	58
			RI 4289	124
			RI 5376	172
Paradis		42130	RI 4034	59
			RI 4289	125
Do.		53047	RI 5376	173
Perkins		43119	RI 4034	60
Phoenix Lake		54061	RI 5376	174

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference[17]
Field name (other name)	Published name			
Louisiana: (con.)				
Pine Island. See Caddo.				
Pine Prairie		43076	RI 4034	62
			RI 4289	126
			RI 5376	175
Do.		43077	RI 4034	61
Pleasant Hill		35110	RI 3476	29
Pointe-a-La-Hache		50045	RI 5376	176
Port Barre		33042	RI 3253	P. 29
Do.		33043	do.	P. 27
Do.		33044	do.	P. 28
Do.		42129	RI 4034	63
			RI 4289	127
			RI 5376	177
Potash		42114	RI 4034	64
Quarantine Bay		42108	do.	65
			RI 4289	128
			RI 5376	178
Red River. See Bull Bayou.				
Roanoke		37208	RI 3476	67
Do.		42221	RI 4034	66
Rodessa[17]		35273	TP 610	H
			RI 3476	31
Do.		37029	do.	30
Do.		37062	RI 3417	11, T. 19
Do.		39140	RI 4034	70
Do.		39141	do.	68
Do.		39143	do.	69
Do.		39144	do.	67
Do.		[18]/40085	RI 4289	129
			RI 5376	179

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Romere Pass		53036	do.	130
Sarepta. See Carterville-Sarepta.				
Section 28		54058	RI 5376	181
Shongaloo		39085	RI 3476	33
Shreveport		39086	do.	34
Sibley (Dubberly)		39079	do.	35
Sligo		39087	do.	36
Do.		39088	do.	37
Do.		39090	do.	38
Do.		39091	do.	39
Sorrento		33040	RI 3253	P. 30
Do.		33041	do.	P. 31
South Pass Area Block 24		54043	RI 5376	182
Springhill		54066	do.	183
Spring Ridge		31333	RI 3476	40
Stella		42138	RI 4034	73
St. Gabriel		42110	do.	72
			RI 4289	123
			RI 5376	184
Do.		42111	RI 4034	71
Sugar Creek		39093	RI 3476	41
Do.		39095	do.	42
Sulphur Mines	Sulphur	33031	RI 3253	P. 33
Do.	do.	33032	do.	P. 32
Summerville		42088	RI 4034	74
Sweet Lake		30389	RI 3253	P. 34
Tepetate		36063	RI 3476	68
Do.		37203	do.	69
Tepetate, West		50014	RI 5376	185
Timbalier Bay		54050	do.	186
Trout Creek		42037	RI 4034	75
Tullos-Urania	Urania	30522	RI 3476	44
Do.	do.	33064	do.	43
Do.	Georgetown	42234	RI 4034	25

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17/ See also references to samples from the same field in Arkansas and Texas.
18/ Composite sample of the Deese sand from the field in Arkansas, Louisiana, and Texas.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Louisiana: (con.)				
University		53041	RI 5376	187
Urania. See Tullos-Urania.				
Valentine	Harang	37246	RI 3476	62
Do.		54065	RI 5376	188
Venice		53034	do.	189
Ville Platte		39115	RI 3476	70
			RI 4289	131
			RI 5376	190
Vinton		756	B 291	124
			RI 2416	P. 22
Do.		34073	RI 3476	71
Do.		34074	do.	72
Do.		42198	RI 4034	76
Do.		43101	do.	77
			RI 4289	132
Do.		53030	RI 5376	191
Weeks Island		52035	do.	192
Welsh		33033	RI 3253	P. 35
West Bay		42137	RI 4034	78
			RI 4289	133
			RI 5376	193
West Cote Blanche Bay. See Cote Blanche Bay, West.				
White Castle		32372	RI 3253	P. 36
			RI 5376	195
White Lake, East		43075	RI 4034	80
			RI 4289	135
			RI 5376	196

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Woodlawn		42217	RI 4034	82
Do.		43007	do.	81
Zenoria-Little Creek	Little Creek	42086	do.	47
Do.	do.	42090	do.	48
Do.	do.	42143	do.	46
Zwolle		31106	RI 3251	T. 7
			RI 3476	47
Zwolle (by error). See Blue Lake.				
Michigan:				
Adams		46122	RI 4239	136
Beaverton		36115	RI 3346	14
Birch Run		36125	do.	1
Coldwater		46121	RI 4239	137
			RI 5376	197
Crystal		36122	RI 3346	9
Deep River		46123	RI 4239	138
			RI 5376	198
Deerfield	Monroe County	36131	RI 3346	15
Denver Township. See Geneva (Abd.).				
Edmore		36119	RI 3346	5
Fork		43098	RI 4239	139
Geneva (Abd.)	Denver Township	36120	RI 3346	6
Greendale Township. See Mt. Pleasant.				
Leaton		36117	RI 3346	12
Monroe County. See Deerfield.				
Mt. Pleasant	Greendale Township	36116	RI 3346	11
Muskegon		36129	do.	3
Do.		36130	do.	7
Porter		36126	do.	10
Reed City		42146	RI 4239	140
Saginaw		36121	RI 3346	2
Sherman		36208	See F 2	P. 3
Vernon		36118	RI 3346	13
West Branch		36123	do.	4
Do.		36124	do.	8

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Mid-Continent area:				
Mid-Continent[19]		385	B 207	P. 32
Do.[19]		37090	RI 3417	7, T. 19
Do.[19]		37100	do.	4, T. 19
Do.[19]		37101	do.	5, T. 19
Do.[19]		37102	do.	6, T. 19
Mississippi:				
Baxterville		45047	RI 4687	29
Do.		45048	RI 4239	141
			RI 4687	30
			RI 5376	199
Brookhaven		43195	RI 4687	31
Do.		45068	RI 4239	142
			RI 5376	200
Cranfield		43194	RI 4289	143
			RI 5376	201
Do.		45070	RI 4687	32
Do.		45071	do.	33
Eucutta		43193	do.	35
Do.		45066	RI 4289	144
			RI 4687	34
			RI 5376	202
Flora		43196	RI 4687	36
Gwinville		45049	do.	38
Do.		45075	do.	37
Heidelberg		44056	RI 4289	145
			RI 5376	203
Heidelberg, East		48096	RI 4687	39

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Heidelberg, West		45063	do.	40
Hub		45067	do.	41
Jackson		32259	do.	42
Kingston		54094	RI 5376	204
LaGrange		48087	RI 4687	43
			RI 5376	205
Langsdale		45074	RI 4687	44
Mallalieu, East	Mallalieu	45069	do.	45
			RI 5376	206
Pickens		45073	RI 4289	146
			RI 4687	46
			RI 5376	207
Soso		45061	RI 4687	47
Tinsley		43066	RI 4289	147
			RI 4687	49
			RI 5376	208
Do.		43067	RI 4687	48
Yellow Creek		54034	RI 5376	209
Missouri:				
Vernon County		47064	B 490	D, T. 4
			do.	E, T. 4
			do.	F, T. 4
Montana:				
Bowes	Bowes Dome	PC-50-284	RI 5376	210
Cat Creek		559	TP 346	P. 39
	Winnett		RI 2235	P. 23
	do.		RI 2290 6/	P. 5
Do.		23034	B 291	125
Do.		23035	do.	126
Cut Bank		36L-11	RI 3358	P. 13
Do.		41L-4	RI 4289	148
Do.		47065	RI 5376	211

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6/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2235.
19/ Pipeline-run sample typical of production from the Mid-Continent area.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference
Montana: (con.)				
Deer Creek		PC-53-54	RI 5055	P. 65
Elk Basin		PC-48-41	See G8	T. 2
Glendive		PC-52-24	RI 5055	P. 66
Do.		PC-53-55	do.	P. 67
Kevin-Sunburst		967	TP 346	P. 40
Do.		23304	B 291	127
			RI 4289	149
Do.		23306	B 291	128
Do.		24152	TP 346	P. 39
Do.		PC-50-295	RI 5376	212
Little Beaver		PC-53-52	RI 5055	P. 63
Pine		PC-52-245	do.	P. 64
Pondera		36L-10	RI 3358	p. 19
Poplar, East		PC-52-246	RI 5055	P. 54
			RI 5376	213
Do.		PC-52-247	RI 5055	P. 55
Poplar, West		PC-52-248	do.	P. 53
Richey		PC-52-243	do.	P. 70
Richey, Southwest		PC-53-53	do.	P. 69
Sunburst. See Kevin-Sunburst				
Winnett. See Cat Creek.				
Woodrow		PC-53-51	RI 5055	P. 68
Nebraska:				
Falls City		40087	See F 3	P. 2
			See G 9	142
Huntsman		PC-51-311	See G 15	T. 2

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New Mexico:				
Arrowhead		41084	RI 3660	1
			RI 4289	150
			RI 5376	214
Artesia		25226	See G 5	P. 171
Do.		25421	do.	P. 171
Do.		27596	do.	P. 171
Do.		31179	RI 3660	2
Do.		41089	do.	3
Aztec. See Oswell.				
Bagley		54078	RI 5376	215
Barber		41080	RI 3660	5
Bloomfield		25507	See G 5	P. 97
Brunson		46093	RI 5376	216
Caprock, East		54089	do.	217
Cooper. See Jalmat.				
Corbin		41081	RI 3660	9
Crossroads		54037	RI 5376	219
Dayton		41082	RI 3660	10
Denton		54042	RI 5376	220
Drinkard		47035	do.	221
Eaves		41268	RI 3660	11
Eunice-Monument	Eunice	31176	do.	12
Do.	Monument	35246	do.	36
Do.	Eunice	38443	do.	13
Do.	Monument	38445	do.	37
	do.		RI 4289	157
			RI 5376	230
Do.	Eunice	41466	RI 3660	14
	do.		RI 4289	151
			RI 5376	222
Eunice, South		41271	RI 3660	15
Eunice, West. See Wilson.				

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference[1]
Field name (other name)	Published name			
New Mexico: (con.)				
Getty		41079	RI 3660	17
Gladiola		54032	RI 5376	223
Grayburg-Jackson	Jackson	38143	RI 3660	24
Do.		41461	do.	18
			RI 4289	152
			RI 5376	224
Halfway		41078	RI 3660	19
Hardy		41462	do.	20
Hare		54080	RI 5376	225
High Lonesome		41094	RI 3660	21
Hobbs		30497	RI 3316	T. 53
Do.		30499	do.	T. 54
Do.		37066	RI 3417	16, T. 19
Do.		38444	RI 3660	22
			RI 4289	153
			RI 5376	226
Hogback		75	B 291	129
Do.		40160	RI 3660	23
Jackson. See Grayburg-Jackson.				
Jal. See Jalmat.				
Jalmat	Jal	35248	RI 3660	25
Do.	Cooper	35250	do.	6
Do.	do.	41269	do.	7
	Cooper-Jal		RI 5376	218
Do.	Jal	41270	RI 3660	26
Do.	Cooper-Lynn	41463	do.	8
Langlie-Mattix	Mattix	37174	do.	35
Do.	Langlie	40012	do.	27
			RI 4289	154
			RI 5376	227

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Leonard		41087	RI 3660	28
Do.		41093	do.	29
Loco Hills		41393	do.	30
			RI 4289	155
Do.		41394	RI 3660	31
Lovington	South Lovington	41272	do.	48
Do.		54053	RI 5376	228
Lynch		41086	RI 3660	32
Maljamar		31180	do.	33
Do.		41464	do.	34
			RI 4289	156
			RI 5376	229
Mattix. See Langlie-Mattix.				
Monument. See Eunice-Monument.				
Moore		54087	RI 5376	231
Oswell	Aztec	40157	RI 3660	4
Penrose-Skelly	Penrose	37173	do.	38
Do.	Skelly	40013	do.	47
			RI 4289	158
Rattlesnake		40158	RI 3660	39
Red Lake		39257	do.	40
Do.		41088	do.	41
Do.		41090	do.	42
Rhodes		41267	do.	43
Robinson		41091	do.	44
Saunders		54036	RI 5376	232
Shugart		41092	RI 3660	45
Skaggs		41083	do.	46
Skelly. See Penrose-Skelly.				
South Lovington. See Lovington.				
Square Lake		43094	See G 9	150
Table Mesa		40159	RI 3660	49
Vacuum		39250	do.	50
			RI 4289	159
			RI 5376	233
Warren		54041	do.	234
Wilson	Eunice, West	41085	RI 3660	16

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
New York:				
Allegany	———	376	B 291	130
	———		RI 2202	P. 18
	———		RI 2290[14]	P. 3
	———		RI 3385	1
Do.	Alma and Willing	707	do.	3
Do.	Clarksville and other fields	703	do.	4
Do.	Wellsville Township	709	do.	5
Do.	Scio Township	710	do.	2
Do.	Richburg	29661	do.	8
Do.	Bolivar	37189	do.	7
Do.	do.	37190	do.	6
Do.		45058	RI 4289	160
			RI 5376	235
Alma and Willing. See Allegany.				
Bolivar. See Allegany.				
Bradford[20]		29663	RI 3385	9
Do.		37187	do.	10
Clarksville and other fields. See Allegany.				
Richburg. See Allegany.				
Scio. See Allegany.				
Wellsville Township. See Allegany.				
North Dakota:				
Beaver Lodge		PC-51-163	RI 5055	P. 59
			IC 7643	Fig. 10
Do.		PC-52-239	RI 5055	P. 50
			RI 5376	236
Do.		PC-52-240	RI 5055	P. 52
			See G 22	T. 1

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Charlson		PC-53-61	RI 5055	P. 51
Croff		PC-52-242	do.	P. 62
Hofflund		PC-53-60	do.	P. 61
Keene		PC-53-59	do.	P. 60
Landa, Northeast		PC-53-56	do.	P. 57
Tioga		PC-52-241	do.	P. 56
			RI 5376	237
Tioga, East		PC-53-58	RI 5055	P. 49
Westhope, North		PC-53-57	do.	P. 58
Ohio:				
Corning		394	B 291	131
			RI 2202	P. 40
			RI 2290[14]	P. 3
Lima District	South Lima	390	B 291	134
	do.		TP 346	P. 42
	do.		RI 2202	P. 42
	do.		RI 2290[14]	P. 3
	do.		IC 6014	8
Do.	North Lima	391	B 231	P. 23
	do.		B 291	133
	do.		TP 346	P. 42
	do.		RI 2202	P. 41
	do.		RI 2235	P. 44
	do.		RI 2290[10]	P. 3
	do.		RI 2293	P. 42
	do.		RI 2322	P. 41
	do.		RI 2364	P. 67
	do.		RI 2416	P. 64
	do.		RI 2582	P. 17
	do.		IC 6014	7
Do.	Lima	37060	RI 3417	14, T. 19
Mecca		520	B 291	132
Penn Grade		393	B 291	135
			RI 2202	P. 39
			RI 2290[14]	P. 3

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.
10/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202 and RI 2235.
14/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202.
20/ See also references to samples from the same field in Pennsylvania.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Oklahoma:				
Allen District	Allen	769	B 291	136
	do.		RI 2364	P. 57
Do.	do.	42094	RI 3802	1
Do.	do.	42095	do.	2
Do.	do.	42096	do.	3
Do.		42097	RI 4289	161
			RI 5376	238
Alluwe and Coody's Bluff	Alluwe and Bluff	612	B 291	137
	Bluff and Alluwe		RI 2364	P. 29
Almeda		38036	RI 3802	4
Antioch, Southwest. See Golden Trend.				
Apache		41440	RI 3802	5
			RI 4289	163
			RI 5376	239
Arbuckle. See Enos.				
Arcadia, Northeast. See Coon Creek.				
Ardmore		42223	RI 3802	7
Asher, West		31319	do.	8
Atlantic		38033	do.	9
Avant		38352	do.	11
Do.		38359	do.	10
Avant, West		39380	do.	14
Do.		39381	do.	13
Do.		39383	do.	12
Backius. See Bighorse District.				
Bald Hill.		741	B 291	139
			RI 2364	P. 52
Barker		39344	RI 3802	17

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Barnsdall	Bigheart	625	B 291	143
	do.		RI 2202	P. 55
	do.		RI 2290 14/	P. 4
	do.		RI 2364	P. 22
Do.		41108	RI 3802	18
Barnsdall, South		41104	do.	19
Barnsdall, West		41100	do.	20
Bartlesville-Dewey	Bartlesville	771	B 291	140
	do.		RI 2364	P. 25
Do.	do.	23153	B 291	141
Do.	Wayside	23171	do.	199
Do.	Dewey-Bartlesville	27661	RI 2893	P. 4
Do.	Bartlesville	29730	RI 3035	T. 2
Do.	do.	38311	RI 3802	21
	Squirrel sand		See G 3	Pp. 110-111
Do.	Bartlesville	38312	RI 3802	23
	Burgess sand		See G 3	Pp. 113-114
Do.	Bartlesville	38313	RI 3802	22
	do.		See G 3	Pp. 111-112
Do.	Dewey	38337	RI 3802	69
	Wayside sand		See G 3	Pp. 109-110
Do.	Dewey	43140	RI 3802	70
Do.	Weber Pool	46160	RI 4740	T. 2
Do.		46172	B 490	H, T. 4
Beggs District	Beggs	735	B 291	142
	do.		RI 2364	P. 48
Do.	Beggs, South	39360	RI 3802	24
Big Bend		44081	do.	25
Bigheart. See Barnsdall.				
Bighorse District	Backius	36048	RI 3802	15
Do.	do.	38037	do.	16
Do.	Bighorse	38038	do.	26

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14/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Oklahoma: (con.)				
Billings		591	B 291	144
			RI 2364	P. 31
Do.		36138	RI 3442	31
Binger		34067	RI 3802	27
Birch Creek		39382	do.	28
Bird Creek		41076	do.	29
Bird Creek and Turley	Skiatook, Sperry and Tulsa	731	B 291	191
	Skiatook, Sperry and Turley		RI 2364	P. 42
Blackwell and Dilworth	Blackwell	615	B 291	145
			RI 2364	P. 17
Boston		43185	RI 3802	31
Do.		43198	do.	30
Boston, North		43188	do.	32
Boston, West		43191	do.	33
Bowlegs		27240	RI 2824	P. 8
			See G 2	P. 114
Do.		27343	RI 2824	P. 9
Do.		27344	RI 4289	164
			RI 5376	240
Do.		37266	RI 3442	17
Bowlegs District, Southwest		37253	RI 3802	34
Do.		43149	do.	35
Boynton		742	B 291	146
			RI 2364	P. 54
Braman District, Southeast	Braman, Southeast	41154	RI 3802	36
Branstetter District	Branstetter	44083	do.	37
Bristow		732	B 291	147
			RI 2364	P. 37

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Britton		36110	RI 3442	1
Britton, South		44132	RI 3802	38
Brock		39462	RI 3592	14
Broken Arrow District	Broken Arrow	752	B 291	148
	do.		RI 2364	P. 44
Brooksville		42055	RI 3802	39
Buffalohead		24513	B 291	149
Bulldog		41116	RI 3802	40
Burbank	Hickman	684	B 291	172
Do.		770	do.	150
			RI 2364	P. 23
Do.		36027	RI 3442	29
Do.	Burbank, South	36028	do.	30
Do.		41032	RI 4289	165
			RI 5376	241
			See G 19	T. 3
Burgess sand. See Bartlesville-Dewey, and Ochelata.				
Cache Creek		47028	RI 5376	242
Caddo	Caddo Deep	42235	RI 3802	41
Caldwell		41060	do.	42
Camp. See Sho-Vel-Tum District.				
Canary		580	B 291	151
			RI 2364	P. 24
Canyon Creek		39387	RI 3802	43
Carr City		29244	RI 3442	18
Cement		647	B 291	152
			RI 2364	P. 56
Do.		41411	RI 3802	51
			RI 4289	166
			RI 5376	244

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Oklahoma: (con.)				
Cement (con.)		41412	RI 3802	44
Do.		41413	do.	50
Do.		41414	do.	49
Do.		41415	do.	47
Do.		41416	do.	46
Do.		41417	do.	48
Do.		41418	do.	45
Do.	Cement, West area	43038	do.	52
Do.	do.	43040	do.	53
Chandler		31230	RI 3279	B, T. 1
Do.	Hoyt	40236	RI 3802	115
Do.		40239	do.	54
Do.		41167	do	55
Chickasha		23122	B 291	153
			See D 7	P. 29
Childers. See Delaware-Childers.				
Chitwood		54051	RI 5376	245
Claremore		754	B 291	154
			RI 2364	P. 34
Cleveland		623	B 291	155
			RI 2364	P. 33
Comanche. See Empire-Comanche.				
Coody's Bluff. See Alluwe and Coody's Bluff.				
Coon Creek	Arcadia, Northeast	44135	RI 3802	6
Country Club		38343	do.	56
Crescent-Lovell	Crescent	36105	RI 3442	32
Do.	do.	39330	RI 3802	57
Do.	do.	40263	RI 4289	167
Do.	do.	40265	RI 3802	59
Do.	do.	40266	do.	58

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Cromwell		24486	B 291	157
			See D 8	T. 9
Do.		42157	RI 3802	60
Cromwell, East		42154	do.	61
Do.		43062	do.	62
Cumberland		40088	RI 4289	168
			RI 5376	246
Do.		41204	RI 3802	63
Cushing		619	B 291	158
			TP 346	P. 41
			RI 2235	P. 49
			RI 2290 6/	P. 5
			RI 2293	P. 47
			RI 2322	P. 45
			RI 2364	P. 36
			RI 2416	P. 65
Do.	Shamrock	24523	B 291	190
Do.		37048	RI 3442	33
			RI 4289	169
			RI 5376	247
Dalton		44090	RI 3802	64
Davenport		26218	See D 13	T. 3
Do.		26219	do.	T. 4
Do.		26226	RI 3802	65
Deaner. See Lyons-Quinn.				
Deep Fork. See Iron Post.				
Delaware-Childers	Delaware extension	611	B 291	161
	do.		RI 2364	P. 28
Do.	Nowata County, Okla.	35294	RI 3325	P. 19
Do.	do.	35295	do.	P. 21
Do.		35296	RI 3802	68
Do.	Nowata County, Okla.	35297	RI 3325	P. 20
Do.	do.	35298	do.	P. 22
Do.		45102	RI 4019	T. 4

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6/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2235.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Oklahoma: (con.)				
Delaware Childers and Lenapah	Delaware and Lenapah	610	B 291	160
	do.		RI 2364	P. 27
Dewey. See Bartlesville-Dewey.				
Dill.		42153	RI 3802	71
Dilworth. See Blackwell and Dilworth.				
Dilworth District	Vernon	41157	RI 3802	230
Domes District	Domes	38040	do.	72
Dora		42155	do.	73
Doyle		54072	RI 5376	248
Duncan, North		39147	RI 3592	9
Do.		39148	do.	15
Duncan, North and Duncan, West	Duncan	650	B 291	162
	do.		RI 2364	P. 59
Duncan, West		39468	RI 3592	8
Earlsboro		27236	RI 2824	P. 11
Do.		27379	do.	P. 16
Do.		37256	RI 3442	19
Do.		37262	do.	20
Earlsboro, East	Earlsboro	27337	RI 2824	P. 10
	do.		See G 2	P.114
Earlsboro, North		39349	RI 3592	30
Do.		39353	RI 3802	74
Earlsboro, West. See Hotulke-West Earlsboro.				
Ed Cox. See Sho-Vel-Tum District.				
Edmond		36109	RI 3442	2

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Edmond, Northeast		44137	RI 3802	75
Do.		54029	RI 5376	270
Edmond, West		44136	RI 3802	76
Do.		44138	do.	77
Do.		44141	B 490	T. 1
			IC 7470	T. 1
Do.		45031	TP 722	Pp. 10-12
			RI 4289	170
			RI 5376	249
			See G 19	T. 4
Do.		46066	See G 9	160
Elgin, South		35122	RI 3802	78
Elk City		49042	RI 5376	250
Elmore, Northeast. See Golden Trend.				
Empire-Comanche	Comanche	649	B 291	156
	do.		RI 2364	P. 58
Do.	do.	39146	RI 3592	4
Do.	Empire	41439	RI 3802	79
Enos	Arbuckle	644	B 291	138
	do.		RI 2364	P. 64
Fish		42156	RI 3802	80
Do.		42160	do.	81
Fitts		36113	RI 4289	171
Do.		36114	RI 3442	34
			RI 3592	32
Fitts, South		42158	RI 3802	82
Flat Rock		38047	do.	84
			RI 5018	T. 6
Do.		44026	RI 3802	88
Do.		44027	do.	86
Do.		44028	do.	85
Do.		44029	do.	87
Do.		44030	do.	83

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Oklahoma: (con.)				
Fox-Graham. See Sho-Vel-Tum District.				
Frederick, West. See Trimue, North.				
Garber		768	B 291	164
			TP 346	P. 41
			RI 2364	P. 30
Do.		36096	RI 3442	35
Do.		36098	RI 3802	97
Do.		41122	do.	91
Do.		41126	do.	95
Do.		41128	do.	92
Do.		41129	do.	98
Do.		41140	do.	94
Do.		41141	do.	96
Do.		41143	do.	93
Gilcrease		25334	See D 12	T. 10
Gilliland		44057	RI 3802	99
Glennpool		736	B 291	165
			RI 2364	P. 41
Do.		37047	RI 3802	100
Do.		39363	RI 4289	172
			RI 5376	252
Golden Trend[21/]	Antioch, Southwest	46026	RI 4289	162
Do.	New Hope, Southeast	50111	RI 5376	258
Do.	Panther Creek, Southwest	50119	do.	259
Do.	Elmore, Northeast	50126	do.	254
Do.	Antioch, Southwest	50129	do.	253
			See G 19	T. 2

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Gotebo. See Gotebo District, South.				
Gotebo District, South	Gotebo	31109	B 490	M, T. 4
	do.		RI 3592	20
Graham, of Fem-Graham. See Sho-Vel-Tum District.				
Guthrie		41408	RI 3802	101
Guthrie Townsite		42201	do.	102
Happy Hollow		38032	do.	103
Haydenville District	Haydenville	39365	do.	104
Healdton		646	B 231	P. 21
			B 291	169
			RI 2364	P. 62
			RI 2582	P. 15
			RI 2807	P. 18
Do.		39152	RI 3592	11
Do.		39153	do.	12
Do.		39154	do.	13
Do.		39155	do.	18
Do.		42028	RI 4289	173
Do.		49018	RI 5376	260
Do.		50149	RI 4917	P. 37
Do.		50150	do.	P. 35
Do.		50153	do.	P. 36
Henryetta		745	B 291	170
			RI 2364	P. 53
Hewitt		645	B 291	171
			RI 2364	P. 61
Do.		39156	RI 3592	6
			RI 4289	174
			RI 5376	261
Do.	Lone Grove, Southwest	44097	RI 3802	130
	do.		RI 4289	176
Hickman. See Burbank.				

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.

21/ The Golden Trend field was established in 1954 by combining the following contiguous fields: Antioch, Southwest; Elmore, Northeast; Erin Springs, Southwest; Katie; Lindsay, East; Lindsay, Southeast; Maysville, Southwest; New Hope, Southeast; Panther Creek; Panther Creek, South; Panther Creek, Southwest; and Purdy, Northeast.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Oklahoma: (con.)				
Hickory Creek District	Osage	943	B 291	183
	Skull Creek		TP 322	T. 2
	do.		RI 2450	P. 6
Do.	Hickory Creek, South	41188	RI 3802	105
Hobart		39231	RI 3592	2
Hogshooter and Ochelata		772	B 291	173
			RI 2364	P. 26
Homer, West	Homer	33140	RI 3592	21
Hominy		622	B 291	174
			RI 2364	P. 20
Do.		38346	RI 3802	106
Hominy, East		38347	do.	107
Do.		41077	do.	108
Hominy Falls		39375	do.	110
Do.		39376	do.	109
Do.		44082	do.	111
Hoover, North		50128	RI 5376	255
Do.		51025	See G 14	T. 2
Horn's Corner		43150	RI 3802	113
Do.		44022	do.	112
Hotulke-West Earlsboro	Earlsboro, West	37263	RI 3442	21
Do.		38011	RI 3802	114
Hoyt. See Chandler.				
Hubbard		40021	RI 3802	118
Do.		40022	do.	117
Do.		40023	do.	116
Do.		40024	do.	119

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Iron Post Jackson. Jennings	See Wewoka District.			
Kaw				
Kellyville		Deep Fork	39361	RI 3802 67
			621	B 291 175
				RI 2364 P. 32
			39098	RI 3802 121
			734	B 291 176
				RI 2364 P. 39
Kendrick			54007	RI 5376 262
Keokuk			39346	RI 3802 123
Do.			39351	do. 122
Knox			47021	RI 5376 263
Lamont, Southeast		Lamont	41214	RI 3802 124
Langston			39323	do. 126
Do.			40232	do. 127
Do.			40233	do. 125
Lenapah. See Delaware-Childers and Lenapah.				
Liberty			44021	RI 3802 128
Liberty, East			44023	do. 129
Lindsay District, North		Lindsay, North	47039	See G 7 T. 8
Do.			50117	RI 5376 256
Do.		Lindsay, North	50120	See G 14 T. 3
Little River			28402	RI 4289 175
Do.			37252	RI 3442 22
Little River, South. See Transco, Northwest.				
Loco District		Loco	39157	RI 3592 19
Do.		Woolsey	54052	RI 5376 277
Lone Grove, Southwest. See Hewitt.				
Lovell, West			36104	RI 3442 36
Lucien			36100	do. 37
Do.			40249	RI 3802 135
Do.			40251	do. 132
Do.			40252	do. 133
Do.			40254	do. 131
Do.			40255	do. 134
				RI 5376 264

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Oklahoma: (con.)				
Lucien, North		40262	RI 3802	136
Lucien, Northeast		42151	do.	137
Lyons-Quinn	Deaner	—	See D 1	P. 39
Do.	do.	—	do.	P. 40
Do.	do.	743	B 291	159
	do.		RI 2364	P. 46
Do.	Lyons	744	B 291	177
	do.		RI 2364	P. 47
Do.	Deaner	37216	RI 3802	66
Macomb, South		43014	do.	138
Madalene		38354	do.	139
Madalene, East		44049	do.	141
Do.		44088	do.	140
Madill		643	B 291	178
			RI 2364	P. 63
Manion, North		38028	RI 3802	142
Do.		44084	do.	143
Mannford District	Mannford	40006	do.	145
Do.	do.	43121	do.	144
Markham, West. See Schlegel, North.				
Marshall		40256	RI 3802	147
Do.		40258	do.	148
Do.		40259	do.	149
Maud		29245	RI 3442	23
Maysville, South		50136	See G 14	T. 4
Do.		50138	RI 5376	257
Mervine	Newkirk	614	B 291	179
	Newkirk and Mervine.		RI 2364	P. 16

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Milroy-Mission Moore. See Sho-Vel-Tum District.				
Moore		37264	RI 3442	24
		36111	do.	3
Moore, South		44134	RI 3802	150
Moore, West		44009	do.	151
			RI 4289	177
Mounds District	Mounds	737	B 291	180
	do.		RI 2364	P. 40
Muskogee		750	B 291	181
			RI 2364	P. 55
Naval Reserve		38357	RI 3802	152
Do.		44061	do.	153
Do.		54016	RI 5376	266
Naval Reserve, South		44059	RI 3802	154
Navina, West		42057	do.	155
New England		38035	do.	156
New Hope, Southeast. See Golden Trend.				
Newkirk. See Mervine.				
Nicoma Park		29775	RI 3802	157
Noble, Southeast	Noble	38162	RI 3442	4
Nowata County. See Delaware-Childers.				
Nuyaka, South		39366	RI 3802	158
Nuyaka District	Phillipsville	740	B 291	186
	do.		RI 2364	P. 51
Ochelata	Burgess sand	38450	See G 3	P.113
Do. See Hogshooter and Ochelata.				
Okemah, North		42200	RI 3802	159
Oklahoma mixed (Pipeline-run sample)		37085	RI 3417	9, T. 19

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Oklahoma: (con.)				
Oklahoma City		281059	RI 3180	P. 17
Do.		29030	do.	P. 27
Do.		29764	do.	P. 24
Do.		29766	do.	P. 25
Do.		29774	do.	P. 26
Do.		30001	RI 3802	169
Do.		30003	RI 3180	P. 18
Do.		30302	TP 554	P. 51
Do.		30303	RI 3180	P. 22
Do.		30312	TP 554	P. 52
			RI 3180	P. 10
Do.		30341	do.	P. 12
Do.		30386	TP 554	P. 53
Do.		32079	RI 3180	P. 13
Do.		32083	do.	P. 19
Do.		32084	do.	P. 9
Do.		32086	do.	P. 14
Do.		32088	do.	P. 20
Do.		32089	do.	P. 11
Do.		32090	do.	P. 23
Do.		32093	do.	P. 21
Do.		32096	do.	P. 15
Do.		32108	do.	P. 16
Do.		32109	RI 3802	172
Do.		32132	RI 3180	P. 28
Do.		32133	RI 3802	168
Do.		32135	RI 3180	P. 29
Do.		32204	RI 3442	12
Do.		34080	RI 3396	T. 8

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Do.		36024	RI 3802	167
Do.		36139	do.	170
Do.		36140	TP 610	B
			RI 3592	29
Do.		36172	RI 3802	171
Do.		37078	RI 3417	15, T. 19
Do.		37255	RI 3442	14
Do.		37257	do.	15
Do.		37258	do.	16
			RI 3802	173
Do.		37259	RI 3442	9
Do.		38005	do.	10
Do.		38006	RI 3802	166
Do.		38007	do.	164
Do.		38008	RI 3442	5
Do.		38010	do.	7
Do.		38274	RI 3802	162
Do.		38275	do.	160
Do.		38276	RI 3442	13
Do.		38277	RI 3802	163
Do.		38278	do.	165
Do.		38279	RI 3442	6
Do.		38280	do.	11
Do.		38281	RI 3802	161
Do.		38282	RI 3442	8
Do.		41297	RI 4289	178
			RI 5376	267
			See G 19	T. 5
Okmulgee District	Okmulgee	739	B 291	182
	do.		RI 2364	P. 50
Olympic		37003	RI 3442	38
Do.		41175	RI 5376	268
Osage. See Hickory Creek District.				
Osage. See Osage County.				

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Oklahoma: (con.)				
Osage City		39303	RI 3802	176
Do.		39306	do.	174
Do.		39315	do.	175
Osage City District East	Osage City, East	39302	do.	177
Osage County (pipeline sample)		617	RI 2364	P. 19
Osage-Hominy District	Osage-Hominy	38356	RI 3802	178
Oscar		39158	RI 3592	3
Owasso		753	B 291	184
			RI 2364	P. 43
Do.		39369	RI 3802	179
Page District	Page	39374	do.	180
Do.	do.	44073	do.	181
Do.	do.	44074	do.	182
Panther Creek, Southwest. See Golden Trend.				
Papoose		25335	See D 12	T. 11
Pauls Valley		44016	RI 3802	184
			RI 4289	179
Do.		44017	RI 3802	185
Do.		44019	do.	183
Pauls Valley, East		45079	See G 9	166
Pawhuska		39379	RI 3802	186
Payson		54030	RI 5376	269
Pearsonia		41251	RI 3802	187
Peck		41255	do.	188
Pershing		624	B 291	185
			RI 2364	P. 21
Do.		41105	RI 3802	189

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Phillipsville. See Nuyaka District.				
Pioneer		38025	RI 3802	190
Do.		38026	do.	191
Do.		38027	TP 610	M
			RI 3592	33
Pleasant Valley		44133	RI 3802	192
Pollyana		40026	do.	193
Polo		36099	RI 3442	39
Ponca City		616	B 291	187
			RI 2364	P. 18
Do.		38160	RI 3442	40
Do.		38161	See G 25	T. 1
Pond Creek		41189	RI 3802	194
Poor Farm		39368	do.	195
Prue		44086	do.	197
Do.		44087	do.	196
Quapaw		41114	do.	198
Do.		51036	RI 4913	T. 2
Quay. See Yale-Quay.				
Quinn. See Lyons-Quinn.				
Ramsey		38016	RI 3442	41
Red River Bed[22/]	Red River, West	25563	TP 607	35, G. 3
	Red River		RI 3252	29, G. 3
Do.[22/]	do.	25564	TP 607	36, G. 3
	do.		RI 3252	30, G. 3
	Red River, West		RI 4450	P. 33
Do.[22/]	Red River	25565	TP 607	37, G. 3
	do.		RI 3252	31, G. 3
Do.[22/]	do.	37031	TP 607	38, G. 3
Do.[22/]	do.	37032	do.	39, G. 3
Do.[22/]	Red River, West	37033	do.	40, G. 3
Do.	do.	46155	RI 4450	P. 34

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22/ The Red River Bed field is officially located in Tillman County, Okla., but the status of the area was not fully established when the analyses were compiled for Technical Paper 607 and Report of Investigations 3252 and the samples therefore were listed in those reports as in Texas.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference[1/]
Field name (other name)	Published name			
Oklahoma: (con.)				
Robberson		39159	RI 3592	24
Rusk		42152	RI 3802	199
Sand Springs		39314	do.	203
Sapulpa District	Sapulpa District, South	39364	do.	204
Sasakwa		42159	do.	205
Sayre District	Sayre	23455	B 291	189
Schlegel, North	Markham, West	43087	RI 3802	146
Searight		27377	RI 2824	P. 12
			See G 2	Pp. 82, 114
Do.		27378	RI 2824	P. 15
Do.		27381	do.	P. 14
Do.		37265	RI 3442	26
Searight, North		39348	RI 3802	206
Seay		39160	RI 3592	22
Seminole		26566	RI 2824	P. 18
			See G 2	P. 82
Do.		27243	RI 2824	P. 17
			See G 2	P. 82
Do.		27335	RI 2824	P. 6
			RI 3180	P. 8
			RI 3279	D, T. 1
			See G 2	P. 82
Do.		27336	RI 2824	P. 13
Do.		27339	do.	P. 7
Do.	Seminole City	37267	RI 3442	27
			RI 5376	271
Do.		37268	RI 3592	31
	Seminole City		RI 4289	180
Do.	do.	38012	RI 3442	28

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Shamrock. See Cushing.				
Shawnee, Northeast		43047	RI 3802	208
Shawnee Lake		43010	do.	207
Sholem Alechem. See Sho-Vel-Tum District.				
Sho-Vel-Tum District[23]	Graham	24347	B 291	166
	do.		See D 9	5
Do.	do.	24348	B 291	167
	do.		See D 9	1
Do.	Fox	24349	B 291	163
	do.		See D 9	8
Do.	Wild Cat Jim	24350	B 291	200
	do.		See D 9	9
Do.	Graham	24351	B 291	168
	do.		See D 9	7
Do.	do.	24352	do.	6
Do.	do.	24353	do.	3
Do.	do.	24354	do.	2
Do.	do.	24355	do.	4
Do.	Tatums	34947	RI 3592	25
	do.		RI 4289	182
	do.		RI 5376	275
Do.	Ed Cox	38190	RI 3592	23
Do.	Fox	39149	do.	16
Do.	do.	39150	do.	1
	Fox-Graham		RI 5376	251
Do.	Graham	39151	RI 3592	10
Do.	Sholem Alechem	39161	do.	27
	do.		RI 5376	272
Do.	Tussy	39162	RI 3592	26
	do.		RI 4289	183a

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23/ The Sho-Vel-Tum District was established in 1955 by combining the following fields; Alma, North,; Alma, Northeast; Alma, Southwest; Ara; Ara, North; Ara, Northwest; Camp; Camp, Southwest; Fox-Graham; Milroy; Milroy, West; Sholem Alechem; Sholem Alechem, Southwest; Sholem Alechem, West; Tatums; Velma; and Wheeler.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Oklahoma: (con.)				
Sho-Vel-Tum District (con.)	Velma shallow	39163	RI 3592	17
Do.	do.		RI 4289	184
	Tussy extension	44098	RI 3802	229
Do.	Tussy		RI 4289	183b
Do.	Velma	48097	RI 5376	276
Do.	Milroy	54020	do.	265
Skiatook	Camp	54064	do.	243
Skiatook, Sperry, and Turley. See Bird Creek and Turley.		39372	RI 3802	209
Skull Creek. See Hickory Creek District.				
Slick		----	See D 5	Pp. 48, 51
Do.		----	do.	Pp. 49, 51
Do.		----	do.	Pp. 50, 51
Do.		733	B 291	192
			RI 2364	P. 38
Do.		39358	RI 3802	210
Sperry. See Bird Creek and Turley.				
Spring		39238	RI 3592	5
Stella		44020	RI 3802	211
Stillwater, Southeast	Stillwater	35258	RI 3442	42
St. Louis District		37254	do.	25
			RI 3802	202
			RI 4289	181a
Do.		42104	RI 3802	200
			RI 4289	181b
			RI 5376	273
Do.		42105	RI 3802	201

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Stroud		39396	do.	212
Do.		40230	RI 5376	274
Sumner, Northwest	Sumner, West	44011	RI 3802	213
Sylvian		43049	do.	214
Tatums. See Sho-Vel-Tum District.				
Tecumseh, East		41406	RI 3802	215
Tecumseh Lake		41407	do.	216
Thomas		40096	do.	217
Do.		40098	do.	218
Do.		40100	do.	219
Tidal Osage		38030	do.	220
Do.		44085	do.	221
Tonkawa		----	See D 6	1
Do.		----	do.	3
Do.		22053	do.	4
Do.		22055	do.	2
Do.		23016	B 291	193
Do.		23021	do.	194
Do.		24476	do.	195
Do.		35284	RI 3442	43
Do.		39319	RI 3802	224
Do.		39335	do.	225
Do.		39336	do.	222
Do.		41152	do.	223
Transco, Northwest	Little River, South	28495	RI 2893	P. 5
Trimue, North	Frederick, West	40027	RI 3802	89
Do.	do.	40028	do.	90
Turley		38044	do.	226
Do. See Bird Creek and Turley.				
Tuskegee District	Tuskegee, East	41133	RI 3802	227
Do.	do.	41134	do.	228

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Oklahoma: (con.)				
Tussy. See Sho-Vel-Tum District.				
Velma. See Sho-Vel-Tum District.				
Vernon. See Dilworth District.				
Wagoner District, Northwest	Wagoner	751	B 291	196
	do.		RI 2364	P. 45
Walters District	Walters	648	B 291	197
	do.		RI 2364	P. 60
Do.	do.	39164	RI 3592	7
Wanette		44003	RI 3802	231
Watchorn		24477	B 291	198
Do.		41147	RI 3802	233
Do.		41151	do.	232
Watchorn, East		42064	do.	234
Wayside. See Bartlesville-Dewey.				
Weber Pool. See Bartlesville-Dewey.				
Wellston, North		38127	RI 3442	44
Wewoka, Northeast		43022	RI 3802	235
Wewoka District	Jackson	44066	do.	120
Wild Cat Jim. See Sho-Vel-Tum District.				
Wildhorse		38350	RI 3802	237
Do.		44052	do.	238
Do.		44053	do.	236
Wildhorse, North		38348	do.	239
Do.		38349	do.	240
Wildhorse, South		44051	do.	241
Wildhorse, West		41073	do.	242

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Wilzetta		39350	do.	243
Wilzetta, South		39354	do.	244
Do.		39355	do.	245
Woolaroc		38043	do.	246
Do.		43168	do.	247
Woolsey. See Loco District.				
Wynona		41098	RI 3802	248
Yale-Quay		620	B 291	188
			RI 2364	P. 35
Do.		54027	RI 5376	278
Youngstown		738	B 291	201
			RI 2364	P. 49
Pennsylvania:				
Allegheny and Washington Counties		382	B 291	203
			RI 2202	P. 23
			RI 2290 14/	P. 3
Bennett Brook. See Bradford District.				
Bradford		23409	RI 3385	23
Do.		23410	do.	21
Do.		26343	do.	20
Do.		26531	do.	27
Do.		26532	do.	28
Do.		26533	do.	25
Do.		26534	do.	26
Do.		29658	do.	31
Do.		29659	do.	29
Do.		29660	do.	30
Do.		29662	RI 3346	16
			RI 3385	24
Do.		29733	do.	32
Do.	Minard Run	29735	do.	39

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14/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Pennsylvania: (con.)				
Bradford (con.)	Bennett Brook	29736	RI 3385	19
Do.		37186	TP 610	A
			RI 3385	33
Do.		37188	do.	22
Do.		45040	TP 722	Pp. 10-12
			RI 4289	185
			RI 5376	279
Bullion-Clintonville		34007	RI 3385	43
Butler. See Hooker, and Renfrew-McCalmont.				
Butler-Armstrong. See Rosenberry.				
Chartiers	Pittsburgh District	23394	RI 3385	11
Church Run	Titusville	37193	do.	58
Clarendon	Tiona	23407	do.	56
Do.		37191	do.	53
Franklin		380	B 291	209
			RI 2202	P. 22
			RI 2290[14/]	P. 3
Do.		23404	RI 3385	44
Do.	Franklin Heavy	41315	RI 3779	T. 1
Gartland	Tiona	23408	RI 3385	57
Glade	do.	23406	do.	55
Greene County		383	B 291	204
			RI 2202	P. 24
			RI 2290[14/]	P. 3
Hampton-Strong		23401	RI 3385	46
Do.		23402	do.	47
Do.		23403	do.	45

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Hooker	Butler	37195	do.	14
Kane		30551	do.	34
Kinsua, East	Kinsua	29731	do.	35
Klondike	Sugar Run	30550	do.	41
Lewis Run		29738	do.	36
Little Washington. See Washington-Taylorstown.				
Marilla Brook. See West Branch				
Marvin Creek		29732	RI 3385	38
McKean County (pipeline sample)		377	B 291	206
			RI 2202	P. 19
			RI 2235	P. 42
			RI 2290 10/	P. 3
			RI 2293	P. 40
			RI 2322	P. 39
			RI 2364	P. 65
			RI 2416	P. 66
			RI 3385	18
Minard Run. See Bradford.				
Ormsby		29737	RI 3385	40
Parker		23395	do.	15
Do.		23396	do.	16
Do.		23397	do.	17
Pennsylvania mixed (pipeline sample)		37149	RI 3417	1, T. 19
Pittsburgh District. See Chartiers.				
Plum Township	Plum Creek Church	1029	B 291	202
Point Lookout		23391	RI 3385	52
Queen. See Tidiout field, Red House Pool.				
Renfrew-McCalmont	Butler	37194	RI 3385	13
Rosenberry	Butler-Armstrong	23398	do.	12
Southwest district (composite sample from several counties)		384	B 291	205
			RI 2202	P. 25
			RI 2290 14/	

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.
10/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202 and RI 2235.
14/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Pennsylvania: (con.)				
Sugar Run. See Klondike.				
Tidioute field, Red House pool	Queen	23405	RI 3385	54
Tiona. See Clarendon, Gartlaad, and Glade fields.				
Titusville. See Church Run.				
Venango County (pipeline sample)		378	B 207	P. 32
			B 291	207
			RI 2202	P. 20
			RI 2290[14/]	P. 3
Do.		379	B 291	208
			RI 2202	P. 21
			RI 2290[14/]	P. 3
Washington-Taylorstown	Washington	23390	RI 3385	50
Do.	do.	23392	do.	49
Do.	do.	23393	do.	48
Do.	Little Washington	37192	do.	51
West Branch	Marilla Brook	29734	do.	37
Windfall		30549	do.	42
Tennessee:				
Clay County		39274	RI 4687	50
Texas:				
Abbott. See Chapman-Abbott.				
Abell		41398	RI 3699	1
Do.		46094	RI 4959	2
Do.		46095	do.	4
			RI 5376	280
Do.		46096	RI 4959	3
Do.		46113	do.	1

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Abell, Northwest		50050	do.	5
Adair		51052	do.	6
			RI 5376	281
Addis. See Cowden, South.				
Agua Dulce		44032	RI 4289	186
			RI 5376	282
Albercas		33170	TP 607	1, G. 5
			RI 3252	1, G. 5
Aldine		42082	RI 3699	2
Allen. See Yarbrough and Allen.				
Alta Vista		33178	TP 607	1, G. 4a
			RI 3252	1, G. 4a
Amarillo. See Panhandle.				
Amelia		37217	TP 607	3, G. 5
Do.		38056	do.	2, G. 5
			RI 4289	187
			RI 5376	283
Anahuac		36066	TP 607	4, G. 5
			RI 3579	T. 6
Do.		37205	TP 607	5, G. 5
			RI 3699	3
Do.		37210	TP 607	7, G. 5
			RI 3579	T. 7
Do.		37211	TP 607	6, G. 5
			RI 4289	188
			RI 5376	284
Andector		51057	RI 4959	7
			RI 5376	285
Antelope		41390	RI 3699	4
Anton-Irish		51053	RI 4959	8
			RI 5376	286
Anthony	Toyah	25422	TP 607	82, G. 2
	Toyah Basin		RI 3252	59, G. 2

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14/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Texas: (con.)				
Anthony (con.)	Toyah	38157	TP 607	83, G. 2
	Toyah Basin		RI 3252	60, G. 2
Do.		40014	RI 3699	5
Apco-Warner	Apco	40015	do.	6
			RI 3744	P. 3
Do.		46115	RI 4959	9
Aransas Pass	Aransas (McCampbell)	36182	TP 607	9, G. 5
Do.	do.	37049	do.	8, G. 5
Do.	do.	37175	do.	10, G. 5
			RI 4289	189
Asylum		38273	TP 607	1, G. 3
Aviators		33176	do.	11, G. 5
			RI 3252	2, G. 5
Avoca		38149	TP 607	2, G. 3
Baker. See Rowe and Baker.				
Baker. See White and Baker.				
Baldwin		36083	TP 607	13, G. 5
Do.		36085	do.	12, G. 5
Barber's Hill		1030	B 291	211
			TP 607	14, G. 5
			RI 2416	P. 33
			RI 3252	3, G. 5
Do.		30505	TP 607	15, G. 5
			RI 3252	4, G. 5
			RI 3699	7
			RI 4289	190
			RI 5376	287
Barnhart		44045	RI 4289	191
Do.		46114	RI 4959	10

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Bateman. See Riddle.				
Batson, Old	Batson	791	B 291	212
			TP 607	16, G. 5
			RI 2416	P. 37
			RI 3252	5, G. 5
Batts. See Schimmell-Batts.				
Bay City, North		43100	RI 5376	288
Bazette		40083	RI 3699	8
Beaumont, West		41475	do.	9
Bedford		46084	RI 4959	12
Do.		46085	do.	11
Benavides (North Sweden)		38131	TP 607	17, G. 5
			RI 4289	192
Benedum		51069	RI 4959	13
Do.		51070	do.	14
Do.		52017	do.	77
			RI 5376	409
Bennett (Pecos County). See Pecos Valley.				
Bennett (Yoakum County). See Wasson.				
Benton (Montague County). See Bowers.				
Benton and Holmes. See Bowers.				
Big Foot		50062	RI 5376	289
Big Lake		26519	TP 607	3, G. 2
			RI 3252	3, G. 2
			IC 6014	5, T. 2
Do.		26520	TP 607	5, G. 2
			RI 3252	4, G. 2
			IC 6014	6, T. 2
Do.		27866	TP 607	6, G. 2
			RI 2849	P. 7
			RI 3252	5, G. 2
Do.		29461	TP 607	11, G. 2
			RI 3252	6, G. 2
			RI 3316	T. 39
			RI 5048	T, 5
Do.		31159	TP 607	10, G. 2
			RI 3252	7, G. 2

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Texas: (con.)				
Big Lake (con.)		31216	TP 607	12, G. 2
			RI 3252	8, G. 2
Do.		31217	TP 607	14, G. 2
			RI 3252	9, G. 2
Do.		31225	TP 607	7, G. 2
			RI 3252	10, G. 2
			RI 3316	T. 47
			RI 3744	P. 4
Do.		31226	TP 607	4, G. 2
			RI 3252	11, G. 2
			RI 3316	T. 46
Do.		31322	TP 607	9, G, 2
			RI 3252	12, G. 2
			RI 3316	T. 48
Do.		34003	TP 607	13, G. 2
			RI 3316	T. 45
			RI 4289	193a
Do.		37155	TP 607	8, G. 2
Do.		37156	do.	15, G. 2
Do.		42229	RI 3744	P. 5
			RI 4289	193b
Do.		50063	RI 4959	15
Do.		50064	do.	16
			RI 5048	T. 6
Do.		50065	RI 4959	17
Big Spring. See Howard-Glasscock.				
Block 31		46099	RI 4959	19
			RI 5376	290
Do.		46100	RI 4959	18

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Blue Ridge		785	B 291	213
			TP 607	18, G. 5
			RI 2416	P. 35
			RI 3252	6, G. 5
Do.		786	B 291	214
			TP 607	19, G. 5
			RI 2416	P. 36
			RI 3252	7, G. 5
Bloomington		50017	RI 5376	291
Boggy Creek		27332	TP 607	1, G. 4
			RI 3252	1, G. 4
Boling		51076	RI 5376	292
Borregos		52087	do.	293
Bowers	Benton and Holmes	39245	RI 3699	11
Do.	Benton	41372	do.	10
Branyon. See Luling-Branyon.				
Breckenridge		694	B 291	215
			TP 607	3, G. 3
			RI 2293	P. 21
			RI 3252	1, G. 3
Brooksmith		28417	do.	2, G. 3
Browning. See Burns-Browning.				
Brownwood		702	B 291	216
			TP 607	4, G. 3
			RI 2293	P. 28
			RI 3252	3, G. 3
Buffalo	Leon (Buffalo)	39096	TP 607	38, G. 4
Do.		39299	RI 3699	12
Bulcher		35196	TP 607	5, G. 3
Burkburnett		651	RI 2293	P. 12
Do.		691	B 291	217
			TP 607	6, G. 3
			RI 2293	P. 13
			RI 3252	4, G. 3

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference 1/
Texas: (Con.)				
Burns-Browning		40132	RI 3699	13
Byrd		42052	do.	14
Caddo		695	B 291	218
			TP 607	7, G. 3
			RI 2293	P. 22
			RI 3252	5, G. 3
Caesar		35151	TP 607	20, G. 5
Calliham		35276	do.	21, G. 5
Canales. See Tijerina-Canales-Blucher.				
Captain Lucey		36084	TP 607	22, G. 5
Do.		36145	do.	23, G. 5
Carter		38152	do.	36, G. 2
Carthage		48012	B 490	B, T. 4
Carver-Kallison		38013	TP 607	2, G. 4a
Cayuga		34018	do.	2, G. 4
Do.		37240	do.	3, G. 4
			RI 3402	T. 8
			RI 3642	M-1, T. 14
Do.		39043	do.	M-2, T. 14
			RI 4289	194
			RI 5376	294
Do.		39179	RI 3642	B, T. 14
			RI 3699	15
Do.		39451	RI 3642	M-3, T. 14
Do.		40031	do.	M-4, T. 14

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Do.		40032	do.	C, T. 14
Do.		40033	do.	A, T. 14
Do.		40200	do.	M-5, T. 14
			RI 3699	16
Cedar Creek (in Limestone County[24])		27695	TP 607	4, G. 4
			RI 3252	2, G. 4
Cedar Lake		51051	RI 4959	20
			RI 5376	295
Cedar Point		40081	RI 3699	18
Do.		40082	do.	17
Chalk. See Howard-Glasscock.				
Chapel Hill		40086	RI 3699	19
Chapman-Abbott		33045	TP 607	8, G. 4a
	Chapman		RI 3252	2, G. 4a
Do.		33046	TP 607	5, G. 4a
	Chapman		RI 3252	3, G. 4a
Do.		33047	TP 607	3, G. 4a
	Chapman		RI 3252	4, G. 4a
Do.		33048	TP 607	4, G. 4a
	Chapman		RI 3252	5, G. 4a
Do.		33049	TP 607	6, G. 4a
	Chapman		RI 3252	6, G. 4a
Do.		33050	TP 607	7, G. 4a
	Chapman		RI 3252	7, G. 4a
Charlotte		50021	RI 5376	296
Chocolate Bayou		50012	do.	297
Church and Fields. See McElroy.				
Cisco	Cisco Lake	38073	TP 607	8, G. 3
Clairemont (Scurry County area)		50068	RI 4959	48

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24/ This field is located in district 5 of Texas according to the regional arrangement by the Texas Railroad Commission. Another field of the same name is in Bastrop County in district 1.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference 1/
Texas: (con.)				
Clara Driscoll		36183	TP 607	24, G. 5
Do.		36184	do.	25, G. 5
Clay Creek		30490	do.	26, G. 5
			RI 3252	8, G. 5
Clear Lake		42040	RI 3699	20
			RI 4289	195
			RI 5376	298
Cogdell (Scurry County area)	Cogdell	50034	RI 4959	49
			RI 5376	389
Do.	Cogdell	51062	RI 4959	50
Do.	do.	51063	do.	51
Coke		42142	RI 3699	21
Coker		42149	do.	22
Coletto Creek		35166	TP 607	27, G. 5
Conoco-Driscoll		41471	RI 3699	23
Conroe		33056	TP 607	28, G. 5
			RI 3252	9, G. 5
Do.		45032	TP 772	T. 1
			RI 4289	196
			RI 5376	299
Conroe, West		42042	RI 3699	24
Corpus Christi		36053	TP 607	29, G. 5
Corsicana		705	RI 2293	P. 29
Do.		24387	B 291	221
			TP 607	6, G. 4
			RI 3252	3, G. 4
Do.		24388	B 291	222
			TP 607	5, G. 4
			RI 3252	4, G. 4

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Cotton Lake		37185	TP 607	30, G. 5
Cowden, North		34002	do.	41, G. 2
			RI 3744	P. 6
			RI 4289	197
Do.		52061	RI 5376	300
Cowden, South	Addis	34004	TP 607	1, G. 2
			RI 4289	198
Do.		52059	RI 5376	301
Cowden-Crane		30343	RI 3744	P. 7
Crane. See McElroy.				
Cree-Sykes		52072	RI 5376	302
Crockett		38152	TP 607	42, G. 2
Crossett		46102	RI 4959	21
Cuevitas. See Guerra.				
Currie		1062	B 291	219
			TP 607	7, G. 4
			RI 3252	5, G. 4
Do.		38087	TP 607	8, G. 4
Do.		38088	do.	9, G. 4
Curry		39	B 291	220
			TP 607	9, G. 3
			RI 3252	6, G. 3
Dale		33173	TP 607	9, G. 4a
			RI 3252	8, G. 4a
Damond Mound		789	B 291	223
			TP 607	33, G. 5
			RI 2416	P. 28
			RI 2806	D, T. 1
			RI 3252	10, G. 5
Do.		790	B 291	224
			TP 607	32, G. 5
			RI 2416	P. 29
			RI 3252	11, G. 5

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference[1]
Field name (other name)	Published name			
Texas: (con.)				
Danbury		33062	TP 607	34, G. 5
			RI 3252	12, G. 5
Darst Creek		33179	TP 607	10, G. 4a
			RI 3252	9, G. 4a
			RI 4289	199
			RI 5376	303
Dayton, North		779	B 291	248
			TP 607	113, G. 5
			RI 2416	P. 51
			RI 3252	54, G. 5
Dean (Dawson County). See Snowden.				
Denman area. See Iatan-East Howard.				
Denver-Wasson. See Wasson.				
Dermott (Scurry County area)		50032	RI 4959	52
			See G 11	T. 4
Desdemona		700	B 291	225
			TP 607	10, G. 3
			RI 2293	P. 24
			RI 3252	7, G. 3
Diamond "M" (Scurry County area)	Diamond M	50026	RI 4959	53
			RI 5376	390
Dickinson		36064	TP 607	36, G. 5
Do.		37207	do.	35, G. 5
Do.		37209	do.	37, G. 5
Dirks		36187	do.	38, G. 5
Dollarhide		46092	RI 4959	22
			RI 5376	304b
Do.		52049	do.	304a
Do.		52050	do.	304d
Do.		52051	do.	304c

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Driver. See Spraberry Trend area.				
Duggan. See Slaughter.				
Dune		40008	RI 3699	26
			RI 3744	P. 8
Dyersdale		49031	RI 5376	305
Early (Scurry County area)		50041	RI 4959	54
East Howard. See Iatan-East Howard.				
East Texas		31062	TP 607	25, G. 4
	Joiner		RI 3130	P. 4
	East Texas (Joiner)		RI 3252	6, G. 4
Do.		31063	TP 607	20, G. 4
	Joiner		RI 3130	P. 5
	East Texas (Joiner)		RI 3252	7, G. 4
Do.		31064	TP 607	21, G. 4
	Kilgore		TP 610	C, T. 6
	do.		RI 3130	P. 6
	East Texas (Kilgore)		RI 3252	8, G. 4
Do.		31065	TP 607	16, G. 4
	Longview		RI 3130	P. 7
	East Texas (Longview)		RI 3252	9, G. 4
Do.		32323	TP 607	12, G. 4
			RI 3252	10, G. 4
Do.		32324	TP 607	15, G. 4
			RI 3252	11, G. 4
Do.		32325	TP 607	13, G. 4
			RI 3252	12, G. 4
Do.		32326	TP 607	33, G. 4
			RI 3252	13, G. 4
Do.		32327	TP 607	32, G. 4
			RI 3252	14, G. 4
Do.		32328	TP 607	17, G. 4
			RI 3252	15, G. 4
Do.		32329	TP 607	14, G. 4
			RI 3252	16, G. 4
Do.		32330	TP 607	11, G. 4
			RI 3252	17, G. 4

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Texas: (con.)				
East Texas (con.)		32331	TP 607	19, G. 4
			RI 3252	18, G. 4
Do.		32332	TP 607	10, G. 4
			RI 3252	19, G. 4
Do.		32333	TP 607	30, G. 4
			RI 3252	20, G. 4
Do.		32334	TP 607	24, G. 4
			RI 3252	21, G. 4
Do.		32335	TP 607	31, G. 4
			RI 3252	22, G. 4
Do.		32336	TP 607	26, G. 4
			RI 3252	23, G. 4
Do.		32337	TP 607	22, G. 4
			RI 3252	24, G. 4
Do.		32338	TP 607	29, G. 4
			RI 3252	25, G. 4
Do.		32339	TP 607	28, G. 4
			RI 3252	26, G. 4
Do.		32340	TP 607	27, G. 4
			RI 3252	27, G. 4
Do.		32341	TP 607	23, G. 4
			RI 3252	28, G. 4
Do.		32342	TP 607	18, G. 4
			RI 3252	29, G. 4
Do.		(25/)	RI 3417	10, T.19
Do.		39300	RI 3699	27
Do.		45035	TP 772	T. 1
			RI 4289	200
			RI 5376	306
			See G21	T. 1

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Ector. See Penwell.				
Electra		43	B 291	226
			TP 607	11, G. 3
			RI 3252	8, G. 3
Do.		44	B 291	227
			TP 607	12, G. 3
			RI 3252	9, G. 3
Do.	South Electra	45	B 291	269
			TP 607	14, G. 3
	South Electra		RI 3252	35, G. 3
Do.	do.	46	B 291	270
			TP 607	15, G. 3
	South Electra		RI 3252	36, G. 3
Do.	Fowlkes Station	47	B 291	228
			TP 607	13, G. 3
	Fowlkes Station		RI 3252	10, G. 3
Do.		692	RI 2293	P. 17
Elkhorn		54068	RI 5376	307
Embar		43064	RI 3744	P. 9
			RI 4289	201
Do.		46116	RI 4959	23
			RI 5376	308
Esperson Dome	Esperson	33124	TP 607	44, G. 5
	do.		RI 3252	13, G. 5
Do.	do.	33125	TP 607	40, G. 5
	do.		RI 3252	14, G. 5
Do.	do.	33126	TP 607	43, G. 5
	do.		RI 3252	15, G. 5
Do.	do.	33127	TP 607	39, G. 5
	do.		RI 3252	16, G. 5
Do.	do.	33128	TP 607	41, G. 5
	do.		RI 3252	17, G. 5
Do.	do.	33129	TP 607	42, G. 5
	do.		RI 3252	18, G. 5

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25/ Pipeline-run sample; no analysis number.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Texas: (Con.)				
Estes. See Ward, North-Estes.				
Ezzell		39256	RI 3699	28
Fairbanks		39044	TP 607	46, G. 5
			RI 3699	29
			RI 4289	202
			RI 5376	310
Falls City		50022	do.	309
Fannett		33079	TP 607	45, G. 5
			RI 3252	19, G. 5
			RI 4289	203
			RI 5376	311
Fargo		41373	RI 3699	32
Do.		41374	do.	31
Do.		41375	do.	30
Flag Lake		38089	TP 607	34, G. 4
Do.		38090	do.	35, G. 4
Do.		39136	RI 3699	33
Flour Bluff		36146	TP 607	47, G. 5
Fort Chadbourne		52074	RI 5376	312
Fort Stockton		54022	do.	313
Foster		40009	RI 3699	34
			RI 3744	P. 10
			RI 4289	204
			RI 5376	314
Do.		41240	RI 3699	35
			RI 3744	P. 11
Fostoria		42081	RI 3699	36
Fowlkes Station. See Electra.				
Francitas		54067	RI 5376	315
Friendswood. See Webster.				

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Fuhrman-Mascho	Fuhrman	38145	TP 607	44, G. 2
	do.		RI 3744	P. 12
			RI 4289	205
			RI 5376	316
Fullerton		42112	RI 3699	37
			RI 3744	P. 13
			RI 4289	206
Do.		46088	RI 4959	24
			RI 5376	317
Do.		46112	RI 4959	25
Fulton Beach		50071	RI 5376	318
Gail, Northeast		52021	RI 4959	74
Garcia		42080	RI 5376	319
Garza		48032	RI 4959	26
			RI 5376	320
Gillock		49020	do.	321
Gillock, South		50060	do.	322
Glasscock. See Howard-Glasscock.				
Goldsmith		37171	TP 607	45, G. 2
			RI 3744	P. 14
			RI 4289	207
Do.		48092	RI 4959	27
Do.		52062	RI 5376	323a
Do.		52063	do.	323b
Do.		52064	do.	323c
Good (Scurry County area)		50030	RI 4959	55
			RI 5376	391
Goose Creek		746	B 291	229
			TP 607	49, G. 5
			RI 2416	P. 40
			RI 3252	20, G. 5
Do.		747	B 291	230
			TP 607	50, G. 5
			RI 2416	P. 41
			RI 3252	21, G. 5

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference 1/
Texas: (Con.)				
Goose Creek (con.)		748	B 291	231
			TP 607	51, G. 5
			RI 2416	P. 42
			RI 3252	22, G. 5
Do.		781	B 291	232
			TP 607	52, G. 5
			RI 2416	P. 43
			RI 3252	23, G. 5
Do.		782	RI 2416	P. 44
Do.		30506	TP 607	53, G. 5
			RI 3252	24, G. 5
			RI 5376	324
Gose. See Texhoma-Gose.				
Government Wells, North		33058	TP 607	54, G. 5
			RI 3252	25, G. 5
Do.		42050	RI 3699	38
			RI 4289	208
			RI 5376	325
Government Wells, South		33059	TP 607	55, G. 5
			RI 3252	26, G. 5
Grapeland		38134	TP 607	36, G. 4
Do.		41489	RI 3699	39
Do.		41492	do.	40
Grayson		31158	TP 607	46, G. 2
	Skelly		RI 3252	57, G. 2
Greta		35160	TP 607	56, G. 5
			RI 4289	209
			RI 5376	326
Do.		35161	TP 607	57, G. 5
Do.		35162	do.	58, G. 5
Do.		36054	do.	59, G. 5

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Guerra	Cuevitas	35165	do.	31, G. 5
Hankamer		30504	do.	60, G. 5
			RI 3252	27, G. 5
Harding. See Howard-Glasscock.				
Harper		38307	TP 607	48, G. 2
Do.		39258	RI 3699	41
			RI 3744	P. 15
Haskell County	Pardue	38310	TP 607	30, G. 3
Hastings		36068	do.	61, G. 5
			RI 3699	42
Do.		45034	TP 722	T. 1
			RI 4289	210
			RI 5376	327
Hawkins		43110	RI 4289	211
Do.		48091	RI 5376	328
Hazlett. See Shipley.				
Helen Gohlke		52057	RI 5376	329
Henderson		35249	TP 607	49, G. 2
Hendrick		27859	do.	50, G. 2
			TP 610	E, T. 6
			RI 2849	P. 17
			RI 3252	25, G. 2
Do.		28376	TP 607	51, G. 2
			RI 3252	26, G. 2
Do.		28377	TP 607	52, G. 2
			RI 3252	27, G. 2
			RI 3316	T. 32
Do.		28378	TP 607	53, G. 2
			RI 3252	28, G. 2
Do.	Winkler County	28622	TP 505	T. 1
			TP 607	54, G. 2
			RI 3252	29, G. 2
			RI 3744	P. 16
			RI 4289	212
			RI 5376	330

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference 1/
Texas: (Con.)				
Henshaw. See Howard-Glasscock.				
Henshaw-Kirby. See Howard-Glasscock.				
Heyser		36181	TP 607	62, G. 5
Do.		37176	do.	63, G. 5
			RI 4289	213
			RI 5376	331
High Island		33066	TP 607	65, G. 5
			RI 3252	28, G. 5
			RI 4289	214
			RI 5376	332
Do.		33067	TP 607	64, G. 5
			RI 3252	29. G. 5
Hilbig		33122	TP 607	11, G. 4a
			RI 3252	10, G. 4a
Hockley		33123	TP 607	66, G. 5
			RI 3252	30, G. 5
Hoffman		41472	RI 3699	44
			RI 4289	215
			RI 5376	333
Holliday		688	B 291	233
			TP 607	16, G. 3
			RI 2293	P. 18
			RI 3252	13, G. 3
Do.	Panther	38072	TP 607	17, G. 3
Houston, South		36067	do.	160, G. 5
			RI 4289	253
			RI 5376	408
Howard-Glasscock	Big Spring Chalk	27599	TP 607	16, G. 2
			RI 3252	13, G. 2

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Do.	Big Spring	27856	TP 607	18, G. 2
	Chalk		RI 2849	P. 8
	do.		RI 3252	14, G. 2
Do.	Big Spring	27857	TP 607	20, G. 2
	Chalk		RI 2849	P. 10
	do.		RI 3252	15, G. 2
Do.	Big Spring	27858	TP 607	17, G. 2
	Chalk		RI 2849	P. 9
	do.		RI 3252	16, G. 2
Do.	Big Spring	29301	TP 607	35, G. 2
	Roberts-Settles		RI 3252	51, G. 2
	Big Spring		RI 3316	T. 18
Do.	do.	29302	TP 607	33, G. 2
	Roberts-Settles		RI 3252	52, G. 2
	Big Spring		RI 3316	T. 14
Do.	do.	29305	TP 607	23, G. 2
	Roberts-Settles		RI 3252	53, G. 2
	Big Spring		RI 3316	T. 8
Do.	do.	29306	TP 607	24, G. 2
	Roberts-Settles		RI 3252	54, G. 2
	Big Spring		RI 3316	T. 12
Do.	do.	30409	TP 607	29, G. 2
	Henshaw		RI 3252	30, G. 2
Do.	Big Spring	30410	TP 607	28, G. 2
	Kirby-Coffee		RI 3252	37, G. 2
Do.	Big Spring	30411	TP 607	19, G. 2
	Chalk		RI 3252	17, G. 2
Do.	Big Spring	30552	TP 607	34, G. 2
	Roberts-Settles		RI 3252	55, G. 2
Do.	Big Spring	30553	TP 607	21, G. 2
	Chalk		RI 3252	18, G. 2
Do.	Big Spring	30617	TP 607	27, G. 2
	Henshaw-Kirby		RI 3252	32, G. 2
Do.	Big Spring	30620	TP 607	31, G. 2
	McDowell		RI 3252	45, G. 2

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name	Published name	Sample	Reference	Item or sample in reference[1]
Texas: (Con.)				
Howard-Glasscock (con.)	Big Spring	31227	TP 607	32, G. 2
	Henshaw		RI 3252	31, G. 2
Do.	Big Spring	35252	TP 607	22, G. 2
Do.	do.	36049	do.	25, G. 2
Do.	do.	36050	do.	26, G. 2
Do.	do.	36051	do.	30, G. 2
Do.	Harding	38151	do.	47, G. 2
Do.		39260	RI 3699	43
			RI 4289	216a
			RI 5376	334
Do.		43111	RI 3744	P. 17
			RI 4289	216b
Hull		788	B 291	234
			TP 607	67, G. 5
			RI 2416	P. 49
			RI 3252	31, G. 5
Do.		794	B 291	235
			TP 607	69, G. 5
			RI 2416	P. 50
			RI 3252	32, G. 5
Do.		30503	TP 607	72, G. 5
			RI 3252	33, G. 5
Do.		30509	TP 607	70, G. 5
			RI 3252	34, G. 5
			RI 4289	217
			RI 5376	335
Do.		30510	TP 607	68, G. 5
			RI 3252	35, G. 5
Do.		30511	TP 607	71, G. 5
			RI 3252	36, G. 5

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Huldale				
Hull-Silk-Sikes		52075	RI 5376	336
		43151	RI 4289	218
			RI 5376	337
Humble		783	B 291	236
			TP 607	73, G. 5
			RI 2416	P. 45
			RI 3252	37, G. 5
Do.		784	B 291	237
			TP 607	75, G. 5
			RI 2416	P. 46
			RI 3252	38, G. 5
Do.		30507	TP 607	77, G. 5
			RI 3252	39, G. 5
Do.		30606	TP 607	74, G. 5
			RI 3252	40, G. 5
Do.		30607	TP 607	76, G. 5
			RI 3252	41, G. 5
Hunter. See Tye-Hunter.				
Hutchinson. See Panhandle.				
Iatan-East Howard	Iatan	26179	TP 607	57, G. 2
	do.		RI 3252	34, G. 2
Do.	do.	30618	TP 607	56, G. 2
	do.		RI 3252	33, G. 2
Do.	do.	32205	TP 607	55, G. 2
	Denman area		RI 3252	21, G. 2
			RI 4289	219
			RI 5376	338
Do.		43001	RI 3744	P. 18
Ibex		23039	B 291	238
			TP 607	18, G. 3
			RI 3252	15, G. 3
Ira. See Sharon Ridge.				
Ira, Northwest. See Sharon Ridge.				
Isenhour	Isenhower	45003	RI 3906	T. 13

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Texas: (Con.)				
Ivan		34	B 291	239
			TP 607	19, G. 3
			RI 3252	17, G. 3
Ivy		38148	TP 607	20, G. 3
Jacob		35159	do.	78, G. 5
Jameson	Jamison	51071	RI 4959	28
			RI 5376	339
Jay Welder		42041	RI 3699	45
Joaquin. See Logansport, La.				
Joe's Lake		39112	TP 607	79, G. 5
Johnson		40135	RI 3699	46
Joiner. See East Texas.				
Jones Ranch		46086	RI 4959	29
Jordan		38144	TP 607	59, G. 2
			RI 3744	P. 19
			RI 4289	220
			RI 5376	340a
Do.		52058	do.	340b
Kallison. See Carver-Kallison.				
Katz		52042	RI 5376	341
Keeran		33169	TP 607	80, G. 5
			RI 3252	42, G. 5
Kelly. See Kelly-Snyder.				
Kelly-Snyder (Scurry County area)	Kelly	50027	RI 4959	56
			RI 5376	392
Do.	Snyder, North	50029	RI 4959	63
Do.	Kelly	50036	do.	57
Do.	Snyder, North	50037	do.	65
			RI 5376	394

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Do.				
Do.	Kelly	50040	RI 4959	58
Kelsey		53017	RI 5106	T. 12
Kelsey Deep		39266	RI 3699	47
Kermit		52086	RI 5376	342
		35249	RI 3744	P. 20
			RI 4289	221
			RI 5376	343
Do.		46091	RI 4959	30
Keystone		37172	TP 607	60, G. 2
			RI 3744	P. 21
			RI 4289	222
Do.		46087	RI 4959	33
			RI 5376	344c
Do.		46105	RI 4959	32
Do.		46108	do.	31
			RI 5376	344b
Do.		52079	do.	344e
Do.		52081	do.	344a
Keystone-Holt		52080	do.	344d
Kildare		42053	RI 3699	90
Kilgore. See East Texas.				
Kingsville		37177	TP 607	81, G. 5
Kirby-Coffee. See Howard-Glasscock.				
K.M.A.		686	B 291	240
			TP 607	21, G. 3
			RI 2293	P. 14
			RI 3252	18, G. 3
Do.		687	B 291	241
			TP 607	22, G. 3
			RI 2293	P. 15
			RI 3252	19, G. 3
Do.		38071	TP 607	23, G. 3
			TP 610	L, T. 6
			RI 4892	P. 37

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[17]
Texas: (Con.)				
K. M. A. (con.)		40011	RI 3699	49
			RI 4289	223a
Do.		41409	RI 3699	48
Do.		43146	RI 4289	223b
			RI 4892	P. 38
			RI 5376	345
Koopman		42051	RI 3699	50
Kosse		1074	B 291	242
			TP 607	37, G. 4
			RI 3252	30, G. 4
LaBelle		38135	TP 607	82, G. 5
La Gloria		48061	RI 5376	346
La Rosa		39045	TP 607	83, G. 5
Do.		39046	do.	84, G. 5
Do.		42214	See G 9	216
Do.		42216	RI 4289	224
Laurel		33172	TP 607	85, G. 5
			RI 3252	43, G. 5
Leck		31174	TP 607	61, G. 2
			RI 3252	38, G. 2
			RI 3744	P. 22
Leon. See Buffalo.				
Levelland		48033	RI 4959	34
			RI 5376	347
Liberty, South		51079	do.	348
Link. See Taylor-Link.				
Livingston		33130	TP 607	87, G. 5
			RI 3252	44, G. 5
Do.		37213	TP 607	86, G. 5
			RI 5376	349

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Llano. See Scarborough.				
Lochridge		41473	RI 3699	51
Lolita		42038	do.	52
			RI 4289	225
			RI 5376	350
Loma Novia		36046	TP 607	88, G. 5
Do.		37178	do.	89, G. 5
			RI 4289	226
London Gin		51047	RI 5376	351
Long Lake		34017	TP 607	39, G. 4
			RI 4289	227
			RI 5376	352
Do.		37231	TP 607	40, G. 4
Longview. See East Texas.				
Lopez		37179	TP 607	90, G. 5
Los Olmos		33061	do.	91, G. 5
			RI 3252	45, G. 5
Lovell's Lake		39252	RI 3699	53
Do.		40308	do.	54
			RI 4289	228
Lowe Ranch		37180	TP 607	92, G. 5
Luby		38133	do.	93, G. 5
			RI 4289	229
Lucas. See Mt. Lucas.				
Luling-Branyon	Luling	25164	TP 607	12, G.4a
	do.		RI 3252	11, G.4a
			RI 4289	230
			RI 5376	353
Lytton Springs		33051	TP 607	13, G. 4a
			RI 3252	12, G. 4a
Do.		33052	TP 607	14, G. 4a
			RI 3252	13, G. 4a
Do.		33053	TP 607	15, G. 4a
			RI 3252	14, G. 4a
Do.		33054	TP 607	16, G. 4a
			RI 3252	15, G. 4a
Do.		33175	TP 607	17, G. 4a
			RI 3252	16, G. 4a

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference 1/
Field name (other name)	Published name			
Texas: (Con.)				
Mabee		48034	RI 4959	35
Magnet-Withers	Withers	37223	TP 607	200, G. 5
Do.		43109	RI 4289	234
			RI 5376	357
Manvel		34071	TP 607	95, G. 5
Do.		34072	do.	96, G. 5
			RI 4289	235
			RI 5376	358
Markham		1031	B 291	243
			TP 607	100, G. 5
			RI 2416	P. 52
			RI 3252	46, G. 5
Do.		24554	TP 607	101, G. 5
			RI 3252	47, G. 5
Do.		24555	TP 607	99, G. 5
			RI 3252	49, G. 5
Do.		24556	TP 607	98, G. 5
			RI 3252	49, G. 5
Do.		24557	TP 607	97, G. 5
			RI 3252	50, G. 5
Markham, North		49023	RI 5376	359
Markley		45014	RI 3906	T. 12
Martin		46109	RI 4959	36
Do.		46111	do.	37
			RI 5376	360
Mascho. See Fuhrman-Mascho.				
Mason		38142	TP 607	62, G. 2
Masterson		38154	do.	63, G. 2

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McCamey		26178	do.	64, G. 2
			RI 3252	40, G. 2
Do.		26265	TP 607	65, G. 2
			RI 3252	41, G. 2
Do.		27593	TP 607	66, G. 2
			RI 3252	42, G. 2
Do.		27863	TP 607	67, G. 2
			RI 2849	P. 14
			RI 3252	43, G. 2
Do.		27864	TP 607	68, G. 2
			RI 2849	P. 15
			RI 3252	44, G. 2
			RI 3744	P. 23
			RI 4289	231
			RI 5376	354
McDowell. See Howard-Glasscock.				
McElroy	Church and Fields	27860	TP 607	37, G. 2
	do.		RI 2849	P. 11
	do.		RI 3252	19, G. 2
Do.	do.	27861	TP 607	38, G. 2
			RI 2849	P. 12
			RI 3252	46, G. 2
	Church and Fields		RI 3316	T. 36
Do.	do.	27862	TP 607	39, G. 2
			RI 2849	P. 13
			RI 3252	47, G. 2
Do.	Church and Fields	30343	TP 607	40, G. 2
	Crane		RI 3252	20, G. 2
Do.		43112	RI 3744	P. 24
			RI 4289	232
			RI 5376	355
McFaddin		35167	TP 607	102, G. 5
			RI 4289	233a
			RI 5376	356
Do.		39254	RI 3699	55
			RI 4289	233b

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference 1/
Texas: (Con.)				
McKee		46097	RI 4959	38
McNeill		35158	TP 607	103, G. 5
Means		35168	do.	69, G. 2
			RI 3744	P. 25
			RI 4289	236
			RI 5376	361
Medina, South. See Somerset.				
Mercedes		35154	TP 607	104, G. 5
Do.		37181	do.	105, G. 5
Mexia		705	B 291	244
			TP 607	41, G. 4
			RI 2293	P. 30
			RI 3252	31, G. 4
Do.		38332	TP 607	42, G. 4
Midkiff. See Spraberry Trend area.				
Midland Farms		51066	RI 4959	39
			RI 5376	362
Midway		37182	TP 607	106, G. 5
Do.		44036	RI 4289	237
			RI 5376	363
Minerva-Rockdale		33177	TP 607	18, G. 4a
	Minerva		RI 3252	17, G. 4a
Mirando City	Schott	23094	B 291	263
	do.		TP 607	153, G. 5
	do.		RI 3252	75, G. 5
Do.	do.	33167	TP 607	154, G. 5
	do.		RI 3252	77, G. 5
Do.	do.	33168	TP 607	155, G. 5
	do.		RI 3252	78, G. 5

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Mirando Valley		965	B 291	245
			TP 607	107, G. 5
	Mirando		RI 2416	P. 56
	do.		RI 3252	51, G. 5
Do.		27608	TP 607	108, G. 5
	Mirando		RI 3252	52, G. 5
Monahans		46079	RI 4959	40
Monroe		32208	TP 607	70, G. 2
			RI 3252	1, G. 2
Moore. See Panhandle.				
Moran. See Putnam-Moran District.				
Mt. Lucas	Lucas	35157	TP 607	94, G. 5
Muenster		35198	do.	26, G. 3
Mustang Island		52088	RI 5376	364
Mykawa		36069	TP 607	109, G. 5
Nacogdoches		1036	B 291	247
			TP 607	110, G. 5
			RI 2416	P. 53
			RI 3252	53, G. 5
Do.		38335	TP 607	111, G. 5
Negro Creek		26586	do.	43, G. 4
			RI 3252	32, G. 4
Nelson		46089	RI 4959	41
New Hope		46015	RI 4594	T. 13
			RI 5376	365
Do.		46016	RI 4594	T. 16
Do.		46018	RI 4289	238
Do.		47019	RI 4594	T. 14
Do.		47020	do.	T. 15
New York City		41288	RI 3699	57
Do.		41388	do.	56
Noelke		40007	do.	58

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference
Texas: (Con.)				
Nome		37215	TP 607	112, G. 5
Noodle Creek		31122	do.	27, G. 3
			RI 3252	22, G. 3
Do.		31123	TP 607	28, G. 3
	Noodle (Smith-Tiner)		RI 3252	23, G. 3
O'Brien. See Ward, North-Estes.				
O'Connor		35163	TP 607	114, G. 5
O'Hern		41474	RI 3699	59
Oil City. See Young County.				
Old Ocean		38064	TP 607	116, G. 5
Do.		39107	do.	115, G. 5
Do.		39108	RI 3699	60
Do.		44012	RI 4289	239
			RI 5376	366
Do.		44063	See G9	198
Opelika		41428	RI 3699	61
Oplin		39262	do.	62
Orange	Terry	796	B 291	273
	do.		TP 607	184, G. 5
	do.		RI 2416	P. 55
	do.		RI 3252	97, G. 5
Do.		909	B 291	250
			TP 607	117, G. 5
			RI 2416	P. 54
			RI 2806	C, T. 1
			RI 3252	55, G. 5
Oyster Bay		46132	RI 5376	367

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Panhandle	Amarillo	23411	B 291	210
	do.		TP 607	1, G. 1
	do.		RI 3252	1, G. 1
Do.		24191	B 291	251
			TP 607	4, G. 1
			RI 3252	4, G. 1
Do.	Hutchinson	26345	TP 607	3, G. 1
	do.		RI 3252	2, G. 1
Do.		26521	TP 607	5, G. 1
			RI 3252	5, G. 1
			IC 6014	2, T. 2
Do.		26522	TP 607	6, G. 1
			RI 3252	6, G. 1
			IC 6014	1, T. 2
Do.		26523	TP 607	7, G. 1
			RI 3252	7, G. 1
			IC 6014	3, T. 2
Do.		26524	TP 607	8, G. 1
			RI 3252	8, G. 1
			IC 6014	4, T. 2
Do.		27161	TP 607	9, G. 1
			RI 3252	9, G. 1
Do.		27162	TP 607	15, G. 1
			RI 3252	10, G. 1
Do.		27163	TP 607	14, G. 1
			RI 3252	11, G. 1
Do.		27164	TP 607	10, G. 1
			RI 3252	12, G. 1
Do.		27165	TP 607	11, G. 1
			RI 3252	13, G. 1
Do.	Moore	27426	TP 607	2, G. 1
	do.		RI 3252	3, G. 1
Do.		29445	TP 607	12, G. 1
			RI 3252	14, G. 1
Do.		29446	TP 607	13, G. 1
			RI 3066	P. 8
			RI 3252	15, G. 1

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[17]
Texas: (Con.)				
Panhandle (con.)		30342	TP 607	16, G. 1
			RI 3252	16, G. 1
Do.		37113	RI 3417	12, T.19
			RI 4289	240
Do.		53028	RI 5376	368
Panther. See Holliday.				
Pardue. See Haskell County.				
Pardue (Fisher County)		52043	RI 5376	369
Payton		38156	TP 607	71, G. 2
			RI 3744	P. 26
Pearsall		35153	TP 607	22, G. 4a
Do.		35288	do.	21, G. 4a
Do.		37183	do.	19, G. 4a
Do.		38074	do.	20, G. 4a
Pecos. See (No name) (Reeves County).				
Pecos Valley		31162	do.	73, G. 2
	Bennett		RI 3252	2, G. 2
			RI 3744	P. 27
Do.		38155	TP 607	72, G. 2
			RI 3744	P. 28
Pegasus		50048	RI 4959	42
			RI 5376	370
Pembrook. See Spraberry Trend area.				
Penwell	Penn	27598	TP 607	75, G. 2
	Ector		RI 3252	23, G. 2
Do.	Penn	30408	TP 607	74, G. 2
	Ector		RI 3252	22, G. 2
	Penn		RI 3316	T. 57
			RI 4289	241
			RI 5376	371b
Do.		46098	RI 4959	43
			RI 5376	371a

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Percilla		38333	TP 607	44, G. 4
Petrolia		689	B 291	252
			TP 607	31, G. 3
			RI 2293	P. 19
			RI 3252	25, G. 3
Do.		45005	RI 3906	T. 14
Pettus		30487	TP 607	118, G. 5
			RI 3252	56, G. 5
Pewitt Ranch		52046	RI 5376	372
Pickett Ridge		37206	TP 607	119, G. 5
Picton		52045	RI 5376	373
Piedras Pintas		803	B 291	254
			TP 607	120, G. 5
			RI 2416	P. 34
			RI 3252	57, G. 5
Pierce Junction		780	B 291	253
			TP 607	121, G. 5
			RI 2416	P. 47
			RI 3252	58, G. 5
Do.		51075	RI 5376	374
Pioneer		42	B 291	255
			TP 607	32, G. 3
			RI 3252	26, G. 3
Pittsburg		40146	RI 3699	89
Placedo		36055	TP 607	122, G. 5
			RI 4289	242
			RI 5376	375
Do.		36057	TP 607	123, G. 5
Plymouth		36056	do.	124, G. 5
Do.		36058	do.	125, G. 5
Do.		36088	do.	126, G. 5
			TP 610	T. 1
			do.	N, T. 6
			RI 4289	243
			RI 5376	376

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[17]
Texas: (Con.)				
Polar		46106	RI 4959	44
Portilla		52089	RI 5376	377a
Do.		52090	do.	377b
Port Lavaca		35152	TP 607	127, G. 5
Do.		37050	do.	128, G. 5
Port Neches		33068	do.	130, G. 5
			RI 3252	59, G. 5
Do.		33069	TP 607	129, G. 5
			RI 3252	60, G. 5
Powell		23365	B 291	256
			TP 607	50, G. 4
			RI 3252	33, G. 4
Do.		23413	TP 607	48, G. 4
			RI 3252	34, G. 4
Do.		24385	B 284	T. 39
			RI 3252	35, G. 4
Do.		24386	B 284	T. 41
			B 291	257
			TP 607	47, G. 4
			RI 3252	36, G. 4
Do.		24876	RI 3252	37, G. 4
Do.		24877	do.	38, G. 4
Do.		24913	B 284	T. 40
			RI 3252	39, G. 4
Do.		26511	B 284	T. 42
			TP 607	46, G. 4
			RI 3252	40, G. 4
Do.		38084	TP 607	49, G. 4
Do.		38085	do.	51, G. 4
Premont, East		39267	RI 3699	63
Prideaux		45004	RI 3906	T. 11

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	Moran	699	B 291	246
	do.		TP 607	24, G. 3
	do.		RI 2293	P. 26
	do.		RI 3252	20, G. 3
Do.	do.	23038	TP 607	25, G. 3
	do.		RI 3252	21, G. 3
Do.	Williams	27199	TP 470	T. 2
	Putnam		TP 607	33, G. 3
	do.		RI 3252	27, G. 3
Do.	Williams	27200	TP 470	T. 3
	do.		TP 607	60, G. 3
	do.		RI 3252	43, G. 3
Do.	do.	28551	TP 607	59, G. 3
	do.		RI 3252	44, G. 3
Do.	do.	28552	TP 607	58, G. 3
	do.		RI 3252	45, G. 3
Quitman		43080	RI 4289	244
			RI 5376	378
Rabbs Ridge. See Thompson.				
Raccoon Bend		30508	TP 607	132, G. 5
			RI 3252	62, G. 5
Do.		30604	TP 607	134, G. 5
			RI 3252	63, G. 5
Do.		30605	TP 607	133, G. 5
			RI 3252	64, G. 5
			RI 3279	F, T. 1
Do.		33131	TP 607	131, G. 5
			RI 3252	65, G. 5
Do.		33132	TP 607	135, G. 5
			RI 3252	66, G. 5
Do.		37184	TP 607	136, G. 5
			RI 4289	245
			RI 5376	379
Randado		35156	TP 607	137, G. 5

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Texas: (Con.)				
Ranger		696	B 291	258
			TP 607	34, G. 3
			RI 2293	P. 23
			RI 2322	P. 46
			RI 2364	P. 72
			RI 2416	P. 67
			RI 3252	28, G. 3
Ray		36188	TP 607	138, G. 5
Red River. See Oklahoma, Red River Bed.				
Refugio		30005	TP 607	140, G. 5
			RI 3252	67, G. 5
Do.		30488	TP 607	141, G. 5
			RI 3252	68, G. 5
Do.		30489	TP 607	142, G. 5
			RI 3252	69, G. 5
			RI 4289	246a
Do.		30565	TP 607	139, G. 5
			RI 3252	70, G. 5
			RI 3279	G, T. 1
			RI 4289	246b
Do.		30566	TP 607	143, G. 5
			RI 3252	71, G. 5
Do.		30567	TP 607	144, G. 5
			RI 3252	72, G. 5
Reinecke (Scurry County area)		51065	RI 4959	59
			RI 5376	380
Richardson-O'Brien. See (No name) (Ward County).				
Do. See Ward, North-Estes.				

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Richland		1061	B 291	259
			TP 607	52, G. 4
Do.			RI 3252	41, G. 4
		24451	B 291	260
			TP 607	53, G. 4
			RI 3252	44, G. 4
Do.		24914	TP 607	54, G. 4
			RI 3252	42, G. 4
Do.		24915	do.	43, G. 4
Do.		38086	TP 607	55, G. 4
Riddle (Bateman)		33174	TP 607	23, G. 4a
	Riddle		RI 3252	18, G. 4a
Rincon		48042	RI 5376	381a
Do.		52092	do.	381b
Ringgold		40131	RI 3699	64
Roberts-Settles. See Howard-Glasscock.				
Rock Crossing		40133	RI 3699	66
Do.		40134	do.	65
Rockdale. See Minerva-Rockdale.				
Rodessa[26]		38129	TP 607	56, G. 4
Do.		38130	do.	57, G. 4
Do.		39138	RI 3699	67
Do.		39139	do.	68
Rogers and Rogers		39246	do.	69
Roma		33057	TP 607	145, G. 5
			RI 3252	73, G. 5
Rotan		38150	TP 607	41, G. 3
Round Top		51049	RI 5376	382
Rowan		42039	RI 3699	70
Rowe and Baker		39137	do.	71
Royston		31124	TP 607	42, G. 3
	Stephens		RI 3252	37, G. 3
Do.		31125	TP 607	43, G. 3
	Stephens		RI 3252	38, G. 3

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26/ See also references to analyses of samples from the same field in Arkansas and Louisiana.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Texas: (Con.)				
Rusk		38334	TP 607	58, G. 4
Russell		54040	RI 5376	383
Russell, North		54038	do.	384
Sadler		54026	do.	385
Salt Creek (Scurry County area)		50066	RI 4959	60
Do.		52068	RI 5376	386
Salt Flat		29729	TP 607	24, G. 4a
			RI 3059	P. 46
			RI 3252	19, G. 4a
Sam Fordyce		35155	TP 607	146, G. 5
Sand Hills		37039	do.	76, G. 2
	"Waddell"		RI 3744	P. 36
Do.		48035	RI 4959	45
			RI 5376	387
Sandusky		54069	do.	388
Santa Anna		701	B 291	261
			TP 607	44, G. 3
			RI 2293	P. 27
			RI 3252	32, G. 3
Saratoga		726	RI 2293	P. 49
			RI 2322	P. 49
			RI 2364	P. 75
Do.		798	B 231	P. 22
			B 291	262
			TP 607	147, G. 5
			RI 2416	P. 38
			RI 2582	P. 16
			RI 3252	74, G. 5

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Satsuma		37212	TP 607	148, G. 5
Saxet		36147	do.	150, G. 5
Do.		36148	do.	149, G. 5
Do.	Saxet Shallow		RI 4289	247a
		36149	TP 607	151, G. 5
Do.		36150	do.	152, G. 5
Do.	Saxet Deep, Frio	45087	RI 4289	247b
Scarborough		29312	TP 607	77, G. 2
			RI 3252	56, G. 2
			RI 3744	P. 30
Do.		31173	TP 607	78, G. 2
	Llano		RI 3252	39, G. 2
Schattel (Scurry County area)		50039	RI 4959	61
Schimmel-Batts		33095	TP 607	25, G. 4a
			RI 3252	20, G. 4a
Schott. See Mirando City.				
Schrock. See Spraberry Trend area.				
Scurry County area. See Clairemont, Cogdell, Dermott, Diamond M, Early, Good, Kelly-Snyder, Reinecke, Salt Creek, Schattell, Sharon Ridge, Spartan, Vealmoor, Vealmoor, East, and Von Roeder for fields producing from the Canyon Reef formation (Scurry County area).				
Sedwick		45001	RI 3906	T. 15
Seeligson		44146	See G 9	223
Do.		44151	RI 4289	248
			RI 5376	398
Segno		39113	TP 607	156, G. 5
Do.		39114	do.	157, G. 5
Seminole		39249	RI 3699	72
			RI 3744	P. 29
			RI 4289	249
			RI 5376	399
Seminole, West		52065	do.	400

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (Other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Texas: (Con.)				
Seven Sisters		39263	RI 3699	73
			RI 4289	250
			RI 5376	401
Shafter Lake		51055	RI 4959	47
Do.		51056	do.	46
			RI 5376	402
Sharon Ridge	Ira	24734	RI 3252	35, G. 2
Do.	Ira, Northwest	31126	TP 607	58, G. 2
	Ira		RI 3252	36, G. 2
Sharon Ridge (Scurry County area)		50033	RI 4959	62
			RI 5376	393
			See G 11	T. 2
Shelbyville		38327	TP 607	59, G. 4
Sheridan		42037	RI 3699	74
Sherman		51045	RI 5376	403
Shipley		31161	TP 607	79, G. 2
	Hazlett (Shipley)		RI 3252	24, G. 2
Do.		35251	TP 607	80, G. 2
	Ward		RI 3744	P. 37
Do.		41266	RI 3699	75
			RI 3744	P. 31
Sigler		35200	TP 607	47, G. 3
Do.		35201	do.	46, G. 3
Do.		35202	do.	45, G. 3
Silsbee		40309	RI 3699	76
			RI 4289	251
			RI 5376	404
Sinton, West		52091	do.	405
Skelly. See Grayson.				

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Slaughter	Duggan	39247	RI 3699	25
Do.		39248	do.	77
Do.			RI 3744	P. 32
		45033	TP 772	T. 1
			RI 4289	252
			RI 5376	406
Slick		33065	TP 607	158, G. 5
			RI 3252	79, G. 5
Snowden	Dean	52020	RI 4959	76
Snyder		39261	RI 3699	78
			RI 3744	P. 33
Snyder, North (Canyon Reef). See Kelly-Snyder (Scurry County area).				
Snyder, North (Strawn)		50028	RI 4959	64
			See G 11	T. 3
Snyder, North (Ellenberger)		50038	RI 4959	66
Somerset		759	B 291	264
			TP 607	26, G. 4a
			RI 2416	P. 25
			RI 3252	21, G. 4a
Do.		760	B 291	265
			TP 607	27, G. 4a
			RI 2416	P. 26
			RI 3252	22, G. 4a
Do.	Medina, South	33171	TP 607	28, G. 4a
	do.		RI 3252	23, G. 4a
Sour Lake		797	B 291	266
			TP 607	159, G. 5
			RI 2416	P. 39
			RI 3252	80, G. 5
Do.		49028	RI 5376	407
South Bend		35	B 291	267
			TP 607	48, G. 3
			RI 3252	33, G. 3
Do.		36	B 291	268
			TP 607	49, G. 3
			RI 3252	34, G. 3

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Texas: (Con.)				
South Houston. See Houston, South.				
Southton	Yturri	966	B 291	280
	Yturri-Southton		TP 607	32, G. 4a
	Yturri		RI 2416	P. 27
	do.		RI 3252	27, G. 4a
Sparton (Scurry County area)		50067	RI 4959	67
Spindletop		978	B 231	P. 24
			B 291	271
			TP 607	161, G. 5
			RI 2416	P. 48
			RI 2582	P. 11
			RI 2808	P. 6
			RI 3252	81, G. 5
Do.		26587	TP 607	173, G. 5
			RI 2808	P. 7
			RI 3252	82, G. 5
Do.		26588	TP 607	170, G. 5
			RI 2808	p. 8
			RI 3252	83, G. 5
Do.		26589	TP 607	167, G. 5
			RI 2808	P. 9
			RI 3252	84, G. 5
Do.		26590	TP 607	168, G. 5
			RI 2808	P. 10
			RI 3252	85, G. 5
Do.		26591	TP 607	169, G. 5
			RI 2808	P. 11
			RI 3252	86, G. 5
Do.		26592	TP 607	166, G. 5
			RI 2808	P. 12
			RI 3252	87, G. 5

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Do.		26593	TP 607	165, G. 5
			TP 610	F, T. 6
			RI 2808	P. 13
			RI 3252	88, G. 5
			RI 3592	28
Do.		26594	TP 607	164, G. 5
			RI 2808	P. 14
			RI 3252	89, G. 5
Do.		26595	TP 607	174, G. 5
			RI 2808	P. 17
			RI 3252	90, G. 5
Do.		26596	TP 607	177, G. 5
			RI 2808	P. 18
			RI 3252	91, G. 5
Do.		26597	TP 607	171, G. 5
			RI 2808	P. 15
			RI 3252	92, G. 5
Do.		26598	TP 607	172, G. 5
			RI 2808	P. 19
			RI 3252	93, G. 5
Do.		26599	TP 607	163, G. 5
			RI 2808	P. 16
			RI 3252	94, G. 5
Do.		33060	TP 607	179, G. 5
			RI 3252	95, G. 5
Do.		35192	TP 607	175, G. 5
Do.		35193	do.	176, G. 5
Do.		35194	do.	162, G. 5
Do.		35195	do.	178, G. 5
Spraberry Deep		52022	RI 4959	78
			RI 5376	411
			See G 18	T. 4
Do.		52056	RI 5376	410

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Texas: (Con.)				
Spraberry Trend area[27/]	Shrock	52013	RI 4959	70
Do.	Midkiff	52014	do.	75
Do.	Pembrook	52016	do.	71
	do.		See G 18	T. 3
Do.	Driver	52018	RI 4959	72
Do.	Tex-Harvey	52019	do.	73
			See G 18	T. 2
Steed. See Worsham-Steed.				
Stephens. See Royston.				
Stowell	Stowell-Winnie	46129	RI 4289	254
			RI 5376	412
Stratton		44033	RI 4289	255
			RI 5376	413
Strawn		693	B 291	272
			TP 607	50, G. 3
			RI 2293	P. 20
			RI 3252	39, G. 3
Sugarland		31030	TP 607	180, G. 5
			RI 3252	96, G. 5
Do.		31233	RI 4289	256
			RI 5376	414
Sugar Valley		49024	do.	415
Sulphur Bluff		38330	TP 607	60, G. 4
			RI 4289	257
Sun		39264	RI 3699	80
			RI 4289	258
Do.		39265	RI 3699	79

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Susan Peak		51080	RI 4959	81
Do.		51081	do.	80
Do.		51082	do.	79
Sweden	Sweden, South	38132	TP 607	181, G. 5
Sykes. See Cree-Sykes.				
Taft		36086	TP 607	183, G. 5
			RI 5376	416
Do.		36087	TP 607	182, G. 5
Talco		36060	do.	63, G. 4
Do.		36061	do.	62, G. 4
Do.		38329	do.	61, G. 4
			RI 4289	259
			RI 5376	417
Taylor-Link		31165	TP 607	81, G. 2
			RI 3252	58, G. 2
			RI 3744	P. 34
Terry. See Orange.				
Tex-Harvey. See Spraberry Trend area.				
Texhoma		690	B 291	274
	Texhoma-Gose		TP 607	53, G. 3
			RI 2293	P. 16
			RI 3252	41, G. 3
Texhoma-Gose		48	B 291	275
			TP 607	54, G. 3
	Texhoma		RI 3252	40, G. 3
Do.		27345	TP 607	51, G. 3
	Gose		RI 3252	11, G. 3
			See D 15	T. 3
Do.		27346	TP 607	52, G. 3
	Gose		RI 3252	12, G. 3
			See D 15	T. 4

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.

27/ This area is listed as a field by the Railroad Commission of Texas in its Annual Report of the Oil and Gas Division, 1955, and is a consolidation of fields producing from the Spraberry sand which have become contiguous. Other fields not contiguous but producing from this formation whose crude-oil analyses are published are Benedum, Northeast Gail, Snowden, and Spraberry Deep and are listed separately.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Texas: (Con.)				
Thompson		33070	TP 607	185, G. 5
	Rabbs Ridge		RI 3252	61, G. 5
			RI 4289	260
Do.		52084	RI 5376	418
Thompson, North		49026	do.	419
Thompson, South		49032	do.	420
Thrall		706	B 291	276
			TP 607	29, G. 4a
			RI 2293	P. 31
			RI 3252	24, G. 4a
Do.		33055	TP 607	30, G. 4a
			RI 3252	25, G. 4a
Three Bar		46110	RI 4959	82
Do.		51058	do.	83
			RI 5376	421
Tijerina-Canales-Blucher		48056	do.	422
Toborg	Tobarg	39259	RI 3699	81
	do.		RI 3744	P. 35
Do.		51059	RI 4959	84
			RI 5376	423
Todd Deep		41395	RI 3699	82
			RI 4289	261
Do.		46101	RI 4959	85
			RI 5376	424
Tomball		35059	TP 607	189, G. 5
Do.		35060	do.	188, G. 5
Do.		36065	do.	187, G. 5
Do.		37204	do.	186, G. 5
			RI 4289	262
			RI 5376	425

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Tom Graham		39253	RI 3699	83
Tom O'Connor		35164	TP 607	190, G. 5
			RI 4289	263
Do.		52071	RI 5376	426
Toyah, or Toyah Basin. See Anthony.				
Tuleta	Tuleta, West	36185	TP 607	198, G. 5
Do.	do.	36186	do.	199, G. 5
Tunstill		51064	RI 4959	86
			RI 5376	427
Turbeville		35199	TP 607	55, G. 3
Turtle Bay		39047	do.	191, G. 5
TXL		46080	RI 4959	87
			RI 5376	428a
Do.		46081	RI 4959	88
Do.		46082	RI 4289	264
			RI 5376	428b
			See G 10	T. 1
Tye (Hunter)		31121	TP 607	56, G. 3
	Hunter		RI 3252	14, G. 3
University Waddell		51060	RI 4959	89
Do.		51061	do.	90
Van		31061	TP 607	65, G. 4
			RI 3130	P. 3
			RI 3252	45, G. 4
Do.		33118	TP 607	66, G. 4
			RI 3252	46, G. 4
Do.		33119	TP 607	67, G. 4
			RI 3252	47, G. 4
Do.		33120	TP 607	68, G. 4
			RI 3252	48, G. 4
			RI 4289	265a
Do.	Van (Shallow)	33121	TP 607	64, G. 4
	do.		RI 3252	49, G. 4
			RI 4289	265b
Do.		52044	RI 5376	429

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference
Texas: (Con.)				
Vaughn		51077	RI 4959	91
Do.		51078	do.	92
Vealmoor (Scurry County area)			RI 5376	430
		50031	RI 4959	68
Vealmoor, East (Scurry County area)			RI 5376	395
View		52066	do.	396
		32206	TP 607	57, G. 3
Village Mills, East			RI 3252	42, G. 3
Von Roeder (Scurry County area)		50044	RI 5376	431
		50035	RI 4959	69
Waddell. Analysis 37039 named by error. See Sand Hills.			RI 5376	397
Waddell. See University Waddell.				
Waddell		31163	TP 607	84, G. 2
			RI 3252	61, G. 2
Walnut Bend			RI 5376	432
Do.		39244	See G 9	240
		41419	RI 3699	84
			RI 4289	266
			RI 5376	433
Ward. See Shipley.				
Ward, North. See (No name) (Ward County).				
Ward, North-Estes	Ward, North	31175	TP 607	85, G. 2
	Richardson-O'Brien		RI 3252	50, G. 2
	Ward, North		RI 4289	267
	do.		RI 5376	434
Ward, South		35169	TP 607	87, G. 2
			RI 3744	P. 38
			RI 5376	435

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Warner. See Apco-Warner.				
Waskom		38328	TP 607	69, G. 4
			RI 5376	436
Wasson	Denver-Wasson	38146	TP 607	43, G. 2
			RI 5376	437
Do.	Bennett	38147	TP 607	2, G. 2
			RI 4289	268
Do.		43143	RI 3744	P. 39
Do.		43144	do.	P. 40
Do.		43145	do.	P. 41
Do.		48093	RI 4959	93
Do.		50070	do.	94
Webster (Friendswood)	Friendswood	38055	TP 607	48, G. 5
Do.		40016	RI 3699	85
Do.		41298	RI 4289	269
Webster		52085	RI 5376	438
Welch		48036	RI 4959	95
			RI 5376	439
Wellman		52078	do.	440
Wentz		46107	RI 4959	96
Westbrook		28/ 24733	TP 607	89, G. 2
			RI 3252	62, G. 2
Do.		24736	TP 607	90, G. 2
			RI 3252	63, G. 2
Do.		30619	TP 607	88, G. 2
			RI 3252	64, G. 2
			RI 3316	T. 60
			RI 3744	P. 42
West Columbia		792	RI 2416	P. 30
Do.		793	do.	P. 31
Do.		981	B 291	277
			TP 607	192, G. 5
			RI 2416	P. 32
			RI 3252	98, G. 5

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28/ Sample number is by error 27433 in TP 607.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Texas: (Con.)				
West Columbia (con.)		23155	B 291	278
			TP 607	193, G. 5
			RI 3252	99, G. 5
Do.		37224	TP 607	194, G. 5
Do.		38057	do.	196, G. 5
			RI 4289	270
Do.		38058	TP 607	195, G. 5
Do.		38059	do.	197, G. 5
West Columbia, New		52083	RI 5376	441
West Ranch		41476	RI 3699	86
			RI 4289	271
Do.		50146	RI 5376	442
Wheat		26180	TP 607	92, G. 2
			RI 3252	65, G. 2
			RI 3744	P. 43
Do.		32207	TP 607	91, G. 2
			RI 3252	66, G. 2
Do.		46103	RI 4959	97
			RI 5376	443b
Do.		46104	RI 4959	98
			RI 5376	443a
White and Baker		38080	TP 607	93, G. 2
White Point, East		42036	RI 3699	87
			RI 4289	272
			RI 5376	444
Willamar		48049	do.	445
Willamar, West		52093	do.	446
Williams. See Putnam-Moran District.				

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Wilshire		52098	RI 5376	447
Winnie. See Stowell.				
Withers. See Magnet-Withers.				
Withers, North		43108	RI 4289	273
			RI 5376	448
World		27867	TP 607	94, G. 2
			RI 2849	P. 16
			RI 3252	67, G. 2
			RI 5376	449
Do.		31164	TP 607	95, G. 2
			RI 3252	68, G. 2
			RI 3744	P. 44
Worsham-Steed		53011	RI 5376	450
Wortham		24916	TP 607	70, G. 4
			RI 3252	50, G. 4
Do.		24932	TP 607	71, G. 4
			RI 3252	51, G. 4
Do.		24933	TP 607	72, G. 4
			RI 3252	52, G. 4
Do.		25008	TP 607	73, G. 4
			RI 3252	53, G. 4
Do.		(29/)	See D 14	T. 5
Do.		38331	TP 607	74, G. 4
Wyatt		40010	RI 3699	88
Yarbrough and Allen		51054	RI 4959	99
			RI 5376	451
Yates		27865	TP 607	98, G. 2
			RI 2849	P. 18
			RI 3252	70, G. 2
Do.		31160	TP 607	97, G. 2
			RI 3252	69, G. 2
			RI 3316	T. 28

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.
29/ Each figure in the analysis given is an average of the figures for the equivalent test from samples 24916, 24932, 24933, and 25008.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Texas: (Con.)				
Yates (con.)		35245	TP 607	96, G. 2
			RI 3744	P. 45
Do.		45039	TP 722	T. 1
			RI 4289	274
			RI 5376	452
Do.		48094	RI 4959	100
Yoast		33180	TP 607	31, G. 4a
			RI 3252	26, G. 4a
Young County	Oil City	37	B 291	249
	do.		TP 607	29, G. 3
	do.		RI 3252	24, G. 3
Do.		697	B 291	279
			RI 2293	P. 25
			RI 3252	46, G. 3
Yturri-Southton. See Southton.				
(No name) (Glasscock County)		23434	RI 2807	P. 19
Do. (Martin County)		24732	RI 3252	71, G. 2
Do. (Reeves County)	Pecos	24735	do.	48, G. 2
Do. (Sterling County)		26267	do.	72, G. 2
Do. (Ward County)	Ward, North	27597	TP 607	86, G. 2
	Richardson-O'Brien		RI 3252	49, G. 2
Utah:				
Aneth		PC-57-140	See E 4	T. 1
Ashley Creek	Ashley Valley	PC-50-341	RI 5376	453
			See G 24	P.
San Juan	Mexican Hat	28113	B 291	281
Virginia:				
Rose Hill		44118	RI 4687	51

[1] Item or sample in reference

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West Virginia:				
Blue Creek		430	B 291	282
			RI 2202	P. 38
			RI 2290[14]	P. 3
Cabin Creek		428	B 291	283
			RI 2202	P. 36
			RI 2290[14]	P. 3
Do.		26569	TP 477	T. 1
			RI 4899	T. 9
Hancock County[30]	Maryland grade oil	422	RI 2202	P. 32
	do.		RI 2290[14]	P. 3
Harrison County[31]	do..	418	RI 2202	P. 28
	do.		RI 2290[14]	P. 3
Do.[32]	do.	419	RI 2202	P. 29
	do.		RI 2290[14]	P. 3
Kelly Creek		429	B 291	284
			RI 2202	P. 37
			RI 2290[14]	P. 3
Lost Run		33157	RI 3279	A, T. 1
Ritchie County[33]	Maryland grade oil	416	RI 2202	P. 26
	do.		RI 2290[14]	P. 3
Do.[34]	Eureka grade oil	417	RI 2202	P. 27
	do.		RI 2290[14]	P. 3
Do.[34]	do.	420	RI 2202	P. 30
	do.		RI 2290[14]	P. 3
Tyler County[35]	do.	423	RI 2202	P. 33
	do.		RI 2290[14]	P. 3
Do.[35]		424	TP 346	P. 43
	Maryland grade oil		RI 2202	P. 34
	do.		RI 2290[14]	P. 3

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14/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202.
30/ Composite sample from fields in this county.
31/ Composite sample from fields in Harrison and Doddridge Counties.
32/ Composite sample from fields in Harrison and other counties.
33/ Composite sample from fields in Ritchie, Wood, Wirt, Calhoun, Roan, Kanawha, and Gilmer Counties.
34/ Composite sample from fields in Ritchie, Wood, Wirt, Calhoun, Roan, and Kanawha Counties.
35/ Composite sample from fields in Tyler, Doddridge, and Wetzel Counties.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
West Virginia: (Con.)				
Tyler County[36] (con.)	Maryland grade oil	425	RI 2202	P. 35
	do.		RI 2235	P. 43
	do.		RI 2290[10]	P. 3
	do.		RI 2293	P. 41
	do.		RI 2322	P. 40
	do.		RI 2364	P. 66
	do.		RI 2416	P. 68
	Paraffin Base Crude		RI 2806	A, T. 1
West Virginia (pipeline-run sample)		37057	RI 3417	13, T.19
Do.		37141	do.	2, T. 19
Wetzel County[37]	Maryland grade oil	421	RI 2202	P. 31
	do.		RI 2290[14]	P. 3
Wyoming:				
Alkali Butte		[38] 28139	B 418	P. 124
Ant Hills		37L-4	do.	P. 124
Aspen		30-10	do.	P. 125
			TP 538	P. 27
Badger Basin		37L-15	B 418	P. 125
Big Medicine Bow	Medicine Bow	35185	See F 1	P. 2
Do.	do.	37L-11	RI 3358	P. 18
Do.	do.	37L-35	B 418	P. 153
Do.	do.	37L-37	do.	P. 154
Big Muddy		560	RI 2202	P. 24
			RI 2290[14]	P. 5
Do.		23284	B 291	285
			B 418	P. 126
Do.		23285	B 291	286

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Do.		37L-6	B 418	P. 126
Do.		37L-7	do.	P. 127
Do.		37L-8	do.	P. 127
Do.		PC-50-357	RI 5376	454
Big Sand Draw		PC-48-33	do.	455
Black Mountain		30-24	B 418	P. 128
			TP 538	P. 39
Bolton Creek		30-31	B 418	P. 128
			TP 538	P. 46
Do.		30-32	B 418	P. 129
			TP 538	P. 47
Bonanza		PC-51-140	RI 5376	456
			See G 20	T. 1
Byron		30-33	TP 538	P. 48
Do.		30501	RI 4289	275
Do.		37L-52	B 418	P. 130
			RI 3568	P. 47
Do.		38L-5	B 418	P. 129
Do.		PC-50-630	RI 5376	457
Casper Creek, North		30-26	B 418	P. 158
			TP 538	P. 41
Casper Creek, South		23199	B 291	287
Do.		30-29	B 418	P. 170
			TP 538	P. 44
Circle Ridge		23417	B 291	288
			B 418	P. 130
			TP 538	P. 52
Cole Creek		PC-50-355	RI 5376	458

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.
10/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202 and RI 2235.
14/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202.
36/ Composite sample from fields in Tyler County.
37/ Composite sample from fields in Wetzel and Marshall Counties.
38/ Analysis by U. S. Geological Survey, Midwest, Wyo.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Wyoming: (Con.)				
Dallas		567	B 291	289
			RI 2235[6/]	P. 29
			RI 2290[6/]	P. 5
Do.		30-14	B 418	P. 131
			TP 538	P. 30
	Dallas-Derby		RI 3423	P. 38
Derby		24329	B 291	290
Do.		30-15	B 418	P. 131
			TP 538	P. 31
Dutton Creek		37L-25	B 418	P. 132
East Teapot. See Teapot Dome.				
Elk Basin		574	RI 2235[6/]	P. 35
			RI 2290[6/]	P. 5
Do.		23295	B 291	291
Do.		23296	do.	292
Do.		23297	do.	293
Do.		37L-24	B 418	P. 133
Do.		38L- 4	do.	P. 133
Do.		43084	RI 4289	276
Do.		43L-34	RI 4768	P. 13
Do.		43L-37	do.	P. 15
Do.		43L-38	do.	P. 13
Do.		44L-7	do.	P. 14
Do.		44L-9	do.	P. 14
Do.		44L-10	do.	P. 15
Do.		PC-50-550	RI 5376	459
Ferris		562	RI 2235[6/]	P. 26
			RI 2290[6/]	P. 5
Do.		23189	B 291	294
			B 418	P. 134

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Fourbear		30-20	do.	P. 134
			TP 538	P. 36
Frannie		30-2	B 418	P. 135
			TP 538	P. 21
Do.		30-3	B 418	P. 135
			TP 538	P. 22
Do.		30335	RI 4289	277
Do.		37L-54	RI 3568	P. 47
Do.		PC-50-559	RI 5376	460
Garland		30-36	TP 538	P. 51
			RI 3423	P. 39
Do.		38/ 37-011	B 418	P. 136
Do.		37L-18	do.	P. 136
Do.		37L-51	do.	P. 137
			RI 3568	P. 48
Do.		PC-50-625	RI 5376	461
Gebo		PC-50-702	do.	462
Glenrock		PC-50-110	do.	463
Gooseberry		37L-38	B 418	P. 137
GP		37L-26	do.	P. 138
Grass Creek		573	B 291	295
			RI 2235	P. 34
			RI 2290 6/	P. 5
Do.		23292	B 291	296
			TP 538	P. 53
			RI 4289	278a
Do.		23293	B 291	297
Do.		38/ 37-012	B 418	P. 139
Do.		37L-22	do.	P. 138
			RI 4289	278b
Do.		37L-48	B 418	P. 139
			RI 3568	P. 48
Do.		39L-5	do.	P. 49
Do.		PC-50-730	RI 5376	464

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.
6/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2235.
38/ Analysis by U. S. Geological Survey, Midwest, Wyo.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Wyoming: (Con.)				
Greybull		572	B 291	298
			RI 2235	P. 33
			RI 2290[6]	P. 5
Do.		37L-23	B 418	P. 140
Hamilton Dome		554	B 231	P. 19
			RI 2235	P. 18
			RI 2290[6]	P. 5
			RI 2582	P. 12
Do.		23288	B 291	299
Do.		23291	do.	300
Do.		30-16	B 418	P. 141
			TP 538	P. 32
Do.		30-17	B 418	P. 141
			TP 538	P. 33
Do.		30337	See G9	274
Do.		30436	RI 4289	279
Do.		37L-42	B 418	P. 140
Do.		PC-50-716	RI 5376	465
Hidden Dome		37L-20	B 418	P. 142
Iron Creek		24706	do.	P. 143
Kirby Creek		37L-21	do.	P. 143
LaBarge		30-11	do.	P. 144
Do.		30431	do.	P. 145
Do.		[38]/33-08	do.	P. 144
Lake Creek		30-23	do.	P. 145
			TP 538	P. 38
Lance Creek		576	RI 2235	P. 37
			RI 2290[6]	P. 5

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	Do.		23279	B 291	301
	Do.		23280	See D 11	T. 7
	Do.		23281	B 291	302
				See D 11	T. 8
	Do.		23282	B 291	303
	Do.		36L-7	B 418	P. 146
				RI 3358	P. 16
	Do.		36L-8	B 418	P. 147
				RI 3358	P. 17
	Do.		36L-9	do.	P. 15
	Do.		38L-7	B 418	P. 147
	Do.		38L-12	do.	P. 146
	Do.		38L-13	B 418	P. 148
	Do.		39101	See G 9	275
	Do.		39103	RI 4289	280
	Do.		PC-47-25	RI 5069	T. 6
	Do.		PC-47-26	do.	T. 24
	Do.		PC-47-27	RI 4517	T. 5
				RI 5069	T. 34
	Do.		PC-47-28	do.	T. 11
	Do.		PC-47-29	do.	T. 14
	Do.		PC-48-22	do.	T. 38
	Do.		PC-48-23	do.	T. 18
	Do.		PC-48-24	do.	T. 29
				See G 8	T. 1
	Do.		PC-53-211	RI 5376	466
	Lander		566	B 291	304
				RI 2235	P. 28
				RI 2290[6/]	P. 5
	Do.		30-13	B 418	P. 148
				TP 538	P. 29
	Do.		37L-16	B 418	P. 149

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6/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2235.
38/ Analysis by U. S. Geological Survey, Midwest, Wyo.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1/]
Wyoming: (Con.)				
Little Buffalo Basin		PC-50-640	RI 5376	467
Lost Soldier		578	RI 2235[6/]	P. 39
			RI 2290[6/]	P. 5
Do.		23187	B 291	305
Do.	Wyoming crude	23329	RI 2362	P. 19
Do.	Little Lost Soldier5	30-9	TP 538	P. 26
Do.		30428	RI 4289	281
Do.		37L-29	B 418	P. 151
Do.		37L-30	do.	P. 151
Do.		37L-31	do.	P. 150
Do.		37L-32	do.	P. 150
Do.		37L-33	do.	P. 149
Do.		37L-40	do.	P. 152
Do.		PC-50-87	RI 5376	468
Mahoney		30-8	TP 538	P. 25
Do.		39L-1	B 418	P. 152
Maverick Springs		569	B 291	306
	Maverick		RI 2235	P. 31
	do.		RI 2290	P. 5
Do.		30-12	TP 538	P. 28
Do.		37L-41	B 418	P. 153
Do.		38L-11	RI 3568	P. 50
Meadow Creek		PC-50-280	See G 16	T. 1
Meadow Creek, North		PC-50-276	RI 5376	469
Medicine Bow. See Big Medicine Bow.				
Midway		37L-17	B 418	P. 154

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Mule Creek		558	B 291	307
			RI 2235	P. 22
			RI 2290 6/	P. 5
			See D 2	T. 2
Do.		630	do.	T. 3
Do.		631	do.	T. 4
Do.		30-35	B 418	P. 155
			TP 538	P. 50
Do.		31-1	B 418	P. 156
Do.		37L-9	do.	P. 155
Do.		37L-10	do.	P. 156
Mush Creek		PC-52-324	RI 5376	470
Muskrat		38/37062	B 418	P. 157
Naval Reserve. See Teapot Dome.				
Newcastle		557	B 291	308
			RI 2235	P. 21
			RI 2290 6/	P. 5
Notches		30-25	B 418	P. 158
			TP 538	P. 40
Oregon Basin		30338	RI 4289	282
Do.		30-5	TP 538	P. 23
			RI 3423	Pp. 36-37
Do.		36L-19	B 418	P. 159
			RI 3435	T. 1
			RI 3568	P. 51
Do.		38L-3	B 418	P. 159
Do.		49007	RI 5376	471
Osage		575	TP 346	P. 40
	Osage Range		RI 2235	P. 36
	do.		RI 2290 6/	P. 5
Do.		23283	B 291	309
Do.		36L-17	B 418	P. 160
Pedro		38/34-010	do.	P. 160

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6/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2235.
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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Wyoming: (Con.)				
Pilot Butte		568	B 291	310
			RI 2235	P. 30
			RI 2290[6]	P. 5
Do.		37L-14	B 418	P. 161
Pine Mountain		555	TP 538	P. 55
			RI 2235	P. 19
			RI 2290[6]	P. 5
Pitchfork		30-34	B 418	P. 161
			TP 538	P. 49
Plunkett		570	B 291	311
			RI 2235	P. 32
			RI 2290[6]	P. 5
Poison Spider		23286	B 291	312
Do.		23287	do.	313
Do.		30-28	B 418	P. 162
			TP 538	P. 43
Do.		38L-10	RI 3568	P. 51
Quealy		36L-14	B 418	P. 162
			RI 3358	P. 21
Rex Lake		36L-15	B 418	P. 163
Rock Creek		577	B 291	314
			RI 2235	P. 38
			RI 2290[6]	P. 5
Do.	Rock River	36L-16	B 418	P. 164
			RI 3358	P. 22
Do.	Rock River	37L-13	B 418	P. 163
Salt Creek		PC-53-98	See G 27	T. 1

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	Do.		561	B 291 315
				TP 449 P. 5
				RI 2202 P. 56
				RI 2235 P. 25
				RI 2290 10/ P. 5
				RI 2293 P. 48
				RI 2322 P. 50
				RI 2364 P. 76
				RI 2416 P. 69
				RI 2806 B, T. 1
	Do.		719	TP 449 P. 6
	Do.		24366	B 291 316
				TP 449 P. 4
	Do.		24374	TP 428 T. 1
				TP 449 P. 3
	Do.		24704	RI 4289 283a
	Do.		26655	do. 283b
	Do.		30-1	TP 538 P. 20
	Do.		30-27	B 418 P. 167
				TP 538 P. 42
	Do.		38/ 34-045	B 418 P. 165
	Do.		38/ 34-049	do. P. 166
	Do.		38/ 34-050	do. P. 164
	Do.		38/ 34-051	do. P. 166
	Do.		38/ 34-053	do. P. 165
	Do.		38L-8	do. P. 167
	Do.		PC-53-99	RI 5376 472
	Shannon		556	B 291 317
				RI 2235 P. 20
				RI 2290 6/ P. 5

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6/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2235.
10/ RI 2290 lists figures on viscosity and pour point to supplement data for this analysis in RI 2202 and RI 2235.
38/ Analysis by U. S. Geological Survey, Midwest, Wyo.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference [1]
Wyoming: (Con.)				
Shawnee		37L-36	B 418	P. 168
Sheep Creek		[38] 35023	do.	P. 168
Shoshone		37L-19	do.	P. 169
Do.		30442	do.	P. 169
			TP 538	P. 54
Simpson Ridge		37L-28	B 418	P. 170
Spindletop		30-30	do.	P. 171
			TP 538	P. 45
Spring Creek		30-21	do.	P. 37
Do.		37L-39	B 418	P. 171
Spring Valley		36L-4	do.	P. 172
Steamboat Butte		PC-49-120	RI 5376	473
Sunshine, North		30-18	B 418	P. 172
			TP 538	P. 34
Do.		30438	RI 3279	E, T. 1
Sunshine, South		30-19	B 418	P. 173
			TP 538	P. 35
Sussex		PC-48-30	See G 12	T. 6
Do.		PC-52-421	RI 5376	474
Teapot Dome		23025	B 291	318
	Naval Reserve No. 3		B 418	P. 157
Do.	East Teapot	[38] 33-035	do.	P. 132
Thornton		[39] ----	do.	P. 173
Torchlight		[39] ----	do.	P. 174
Warm Springs		565	B 291	319
			RI 2235	P. 27
Do.		30-7	TP 538	P. 24
Do.		37L-43	B 418	P. 174

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Waugh		36L-6	B 418 RI 3358	P. 175 P. 23
Wertz		37L-5	B 418 RI 3358	P. 175 P. 24
Do.		39106	See G 9	279
Do.		PC-50-80	RI 5376	475
Winkleman		PC-49-96	do.	476
Worland		PC-50-711	do.	477
Canada: *				
Athabasca	McMurray	2475	B 490	N, T. 4
Bothwell		929	TP 346	P. 19
Calgary. See Turner Valley.				
Campbell		51068	See G 17	T. 2
Fort Norman. See Norman Wells.				
Leduc-Woodbend	Leduc	49047	RI 4657	33
Do.	do.	49048	do.	34
	do.		See G 17	T. 3
McMurray. See Athabasca.				
Mosa		930	TP 346	P. 20
Norman Wells	Fort Norman	931	do.	P. 20
Oil Springs		928	do.	P. 19
Petrolia		927	do.	P. 18
Redwater		49046	RI 4657	35
Stettler		51028	See G 17	T. 4
Stony Creek		23049	TP 346	P. 21
Do.		23059	do.	P. 21
Turner Valley	Calgary	920	do.	P. 15
Do.	do.	921	do.	P. 15
Do.	do.	922	do.	P. 16
Do.	do.	923	do.	P. 16
Do.	do.	924	do.	P. 17
Do.	do.	925	do.	P. 17
Do.	do.	926	do.	P. 18

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.
38/ Analysis by U. S. Geological Survey, Midwest, Wyo.
39/ Incomplete analysis.
* State in balance of table refers to sovereign state.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference
Field name (other name)	Published name			
Mexico:				
Alamo		990	TP 346	P. 22
Cerro Azul		1022	do.	P. 22
Do.		1023	do.	P. 23
Chapopote Nunez		1021	do.	P. 23
Ganzalo		993	do.	P. 27
Potrero del Llano		1024	do.	P. 24
Do.		1025	do.	P. 24
Tampico District		38L-19	RI 3568	P. 52
Tierra Blanca		1020	TP 346	P. 25
Topila		991	do.	P. 27
Toteco		811	B 231	T. 2
			TP 346	P. 26
			RI 2582	P. 10
Do.		1026	TP 346	P. 25
Do.		1027	do.	P. 26
Zurita		992	do.	P. 28
	SOUTH AMERICA			
Argentina:				
Comodoro Rivadavia		915	TP 346	P. 34
Do.		1037	do.	P. 34
Mendoza-Neuquen		916	do.	P. 35
Plaza Huincul		1038	do.	P. 35
Chile:				
Manantiales (Spring Hill)		49010	RI 4657	10

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Colombia:				
Cantagallo		47056	RI 4657	11
Carbonera		49004	do.	12
Casabe		48008	do.	14
Do.		48009	do.	13
Colorado		48004	do.	15
El Deficil		49033	do.	16
Galán		48001	do.	17
Infantas		1039	TP 346	P. 37
Do.		1040	do.	P. 37
Do.		48002	RI 4657	18
La Cira		48003	do.	19
Las Monas (La Salina)		47057	do.	20
Petrolea		49003	do.	21
Tibu		49001	do.	22
Do.		49002	do.	23
Velasquez		48007	do.	24
Peru:				
(High cold test crude oil)		933	TP 346	P. 38
LaBrea - Parinas		47054	RI 4657	25
Do.		47055	do.	26
Lobitos		932	TP 346	P. 38
Trinidad:				
Barrackpore		950	TP 346	P. 32
Brighton		954	do.	P. 32
Fyzabad		951	do.	P. 33
Morne L'Enfer Reserve,	Lot 1	946	do.	P. 30
Do.	Lot 4	947	do.	P. 31
Parry Lands		953	do.	P. 31
Point Fortin		952	do.	P. 33
Tabaquite		948	do.	P. 28
Do.		949	do.	P. 29
Do.		955	do.	P. 29
Do.		956	do.	P. 30

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference[1/]
Field name (other name)	Published name			
Venezuela:				
Ambrosio		26275	RI 2807	P. 10
El Mene		26274	do.	P. 13
Guario		47044	B 490	L, T. 4
			RI 4657	27
La Concepcion		26273	RI 2807	P. 12
Lagunillas		47043	RI 4657	28
Lake Maracaibo		998	TP 346	P. 36
			RI 2807	P. 9
La Rosa		26276	do.	P. 11
Mene Grande		23539	TP 346	P. 36
			RI 2807	P. 8
Mercedes (heavy)		47047	RI 4657	30
Do. (light)		47048	do.	29
Oficina		47045	do.	31
Tucupita		47046	do.	32
	AFRICA			
Algeria:				
Tliouanet		29664	B 401	P. 131
Angola:				
(No name)		533	B 401	P. 134
Do.		534	do.	P. 134
Egypt:				
Abu Durba		994	B 401	P. 133
Gemsah		997	do.	P. 132
Hurghada		996	do.	P. 131
Do.		30401	do.	P. 132

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Arabia: See Saudi Arabia.				
Bahrain (Bahrein Island):				
Bahrain	Bahrein	49051	RI 4657	36
Burma:				
Chauk. See Singu.				
Minbu		23224	B 401	P. 90
Singu (Chauk)		23219	do.	P. 89
Yenangyat		23222	do.	P. 90
Yenangyaung		23225	do.	P. 89
Formosa (Taiwan):				
Shukkoko40/		969	B 401	P. 106
India:				
Attock (Khaur). See Pakistan.				
Badarpur		23220	B 401	P. 92
			TP 610	G
Do.		23221	B 401	P. 91
Digboi		23216	do.	P. 91
Iran:				
Agha Jari		48023	RI 4657	1
Central area:		41/ 48025	do.	2
Haft Kel				
Lali				
Masjid-i-Salaiman				
Naft Safid (White Oil Springs)				
Gach Saran		48024	RI 4657	3
Haft Kel		30319	B 401	P. 83
Masjid-i-Sulaiman		30317	do.	P. 82
Do.		30318	do.	P. 82
Iraq:				
Kirkuk		30320	B 401	P. 83
Do.		48019	RI 4657	4

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.

40/ Published under Japan. When the sample was taken (1922) and the analysis published in Bulletin 401 (1937) the island of Formosa was governed by Japan.

41/ Sample representative of the 4 fields listed.

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TABLE 3.—Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference[1]
Field name (other name)	Published name			
Japan:				
Higashiyama		971	B 401	P. 104
Ishikari		30205	do.	P. 98
Iwase		30208	do.	P. 100
Kanatsu		30211	do.	P. 103
Katsurane		974	do.	P. 101
Kokuni (Oguni)		30210	do.	P. 102
Kubiki		976	do.	P. 105
Kurokawa		973	do.	P. 99
Maki		30214	do.	P. 106
Masuhoro		30206	do.	P. 98
Michikawa		30207	do.	P. 100
Nanukaichi		30213	do.	P. 104
Niitsu		972	do.	P. 102
Nishiyama		970	do.	P. 105
Omo		30212	do.	P. 103
Toyakawa		975	do.	P. 99
Yuri		30209	do.	P. 101
Pakistan:				
Attock (Khaur)[42]		23223	B 401	P. 92
Russia in Asia: See Soviet Union.				
Saudi Arabia:				
Abqaiq		47050	RI 4657	5
Abu Hadriya		48005	do.	6
Dammam		47053	do.	7
Farasan (Farsan)Islands		995	B 401	P. 133
Qatif		47051	RI 4657	8
Do.		47052	do.	9

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EUROPE				
Albania:				
Kuchova		30403	B 401	P. 8
Patos		30402	do.	P. 8
Czechoslovakia:				
Gbely (Egbell)		31074	B 401	P. 11
Hodonin (Göding)		29666	do.	P. 11
France:				
Gabian		29670	B 401	P. 15
Pechelbronn		24337	do.	P. 16
Do.		24338	do.	P. 18
Do.		24339	do.	P. 15
Do.		24340	do.	P. 17
Do.		29667	do.	P. 16
Do.		29668	do.	P. 17
Germany, West:				
Hänigsen		29675	B 401	P. 25
Nienhagen		29676	do.	P. 25
Oberg		29677	do.	P. 24
Synthetic crude oil 43/		37197	TP 610	K
Wietze		29671	B 401	P. 26
Do.		29672	do.	P. 27
Do.		29673	do.	P. 26
Do.		29674	do.	P. 24
Great Britain:				
Glapwell Pit, England		38136	TP 610	J
Hardstoft field, England	Midland District	29669	B 401	P. 29
Dalkeith field, Scotland	Midlothian District	23051	do.	P. 29
Greece:				
Zante		29678	B 401	P. 58

1/ "G." indicates group, "P." page, "Pp." pages, and "T." table.

42/ Published under India. When the sample was taken (1923) and the analysis published in Bulletin 401 (1937) the area was governed by India.

43/ A product synthesized from materials derived from coal and other raw materials.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field Field name (other name)	Published name	Sample	Reference	Item or sample in reference[1]
Italy:				
Emilia region:				
Neviano dei Rossi		30185	B 401	P. 32
Ozzano-Ricco		30186	do.	P. 33
Rallio-Montechiaro		30187	do.	P. 32
Tabiano		30184	do.	P. 33
Poland: See Soviet Union.				
Rumania:				
Arbansi		1161	B 401	P. 53
Do.		30295	do.	P. 53
Baicoi		1159	do.	P. 47
Do.		1160	do.	P. 47
Bordeni		30299	do.	P. 51
Bustenari		1158	do.	P. 46
Campina		1157	do.	P. 48
Chiciura		30297	do.	P. 51
Filipesti		1154	do.	P. 50
Gura-Ocnitei		1153	do.	P. 52
Moinesti-Stanesti		30296	do.	P. 54
Moreni		1150	do.	P. 46
Do.		1151	do.	P. 45
Do.		1152	do.	P. 45
Ochiuri-Rasvad		30294	do.	P. 52
Runcu		1156	do.	P. 49
Do.		30298	do.	P. 50
Do.		30300	do.	P. 49
Tintea		30301	do.	P. 48

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Soviet Union (includes Russia in Asia):				
Baku district:				
Balakany		27371	B 401	P. 70
Do.		30233	do.	P. 71
Bibi-Eibat		27372	do.	P. 70
Binagadi		30235	do.	P. 69
Ramani		27373	do.	P. 72
Do.		30236	do.	P. 72
Sabunchi		30234	do.	P. 71
Surakany		30232	do.	P. 69
Carpathian area:				
Bitkow		44/ 1194	B 401	P. 36
Boryslaw		44/ 30502	do.	P. 37
Boryslaw-Tustanowice		44/ 1196	do.	P. 36
Schodnica		44/ 1193	do.	P. 37
Schodnica-Urycz-Pereprostyna		44/ 1195	do.	P. 38
Emba area:				
Dossor		30246	B 401	P. 73
Do.		30247	do.	P. 73
Makat		30248	do.	P. 74
Grozny area:				
New Grozny		31049	B 401	P. 67
Do.		31050	do.	P. 67
Vosnesenski		31051	do.	P. 68
Do.		31052	do.	P. 68
Kama River area:				
Chusovskii Gorodki		31067	B 401	P. 66
Do.		31068	do.	P. 66
Sakhalin Island:				
---		32119	B 401	P. 77
---		32121	do.	P. 78

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44/ Published under Poland. Field located in territory formerly governed by Poland.

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TABLE 3.--Finding list for crude-oil analyses - Continued

State and field		Sample	Reference	Item or sample in reference[1]
Field name (other name	Published name			
Soviet Union (includes Russia in Asia) (Con.)				
Uzbek (Ferghana) area:				
Chimion		30244	B 401	P. 75
Do.		30245	do.	P. 74
Sel Rokko		30237	do.	P. 75
Do.		30238	do.	P. 76
Do.		30242	do.	P. 76
Shor-Su		30243	do.	P. 77
Yugoslavia:				
Selnica		30249	B 401	P. 56
OCEANIA				
Indonesia:				
Borneo:				
Sanga Sanga district		1246	B 401	P. 118
Do.		1247	do.	P. 117
Do.		30394	do.	P. 118
Do.		30395	do.	P. 117
Tarakan		1248	do.	P. 116
Do.		30397	do.	P. 116
Java:				
Dandangilo		1241	B 401	P. 125
Ledok		1240	do.	P. 124
Ngrajoeng		1242	do.	P. 126
Petak		1254	do.	P. 124
Rembang district		30400	do.	P. 125
Semanggi		1243	do.	P. 126

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Sumatra:				
Babat		1252	B 401	P. 121
Batoe Kras		1250	do.	P. 122
East Coast district		30398	do.	P. 119
Palembang		1249	do.	P. 120
Palembang, North		1251	do.	P. 121
Pangkalan Soesoe		1244	do.	P. 120
Perlak		1245	do.	P. 119
South Sumatra		30399	do.	P. 123
Talang-Akar		1255	do.	P. 122
Do.		30315	do.	P. 123
New Zealand:				
Muturoa		30314	B 401	P. 127
			B 490	K, T. 4
Sarawak:				
Miri		23052	B 401	P. 114
Do.		25329	do.	P. 113
Do.		25330	do.	P. 114
Do.		25331	do.	P. 115
Do.		25332	do.	P. 115
Do.		30396	do.	P. 113

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